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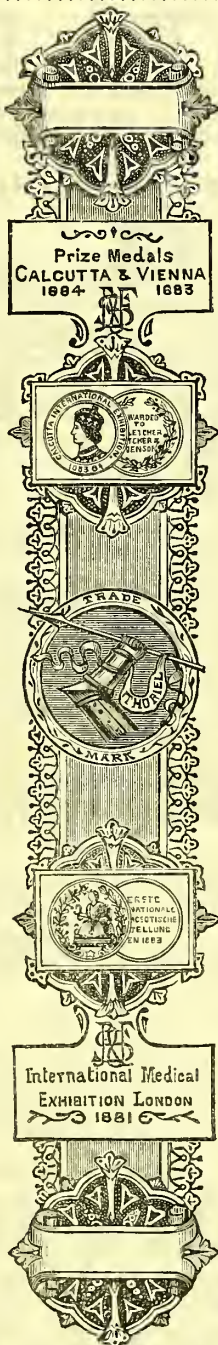
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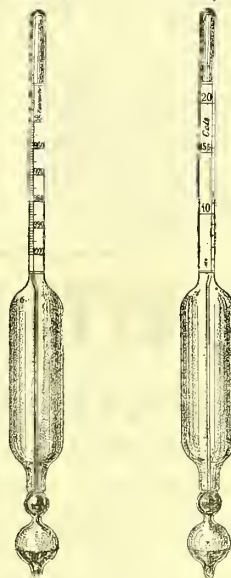
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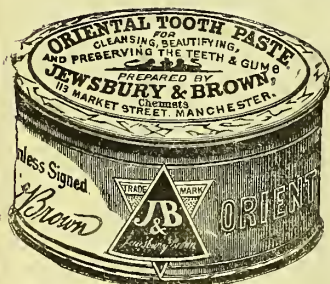
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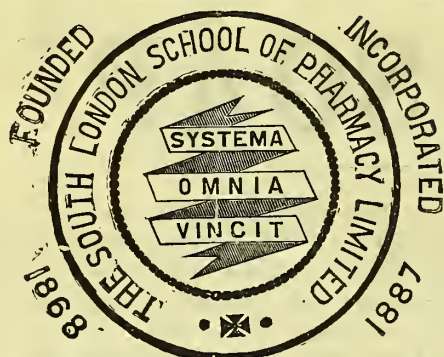


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Six years ago "Vinolia" Soap was not known. Within that period it has become the leading Toilet Soap of more than as many countries. At that time the merit of this or that soap was decided upon by the extent to which it was advertised. *Nous avons changé tout cela.* We have popularised much that was known about soaps, supplied a *bonâ-fide* high-class product, and sent out tests (analytical and easy) with each tablet. Six years ago there was not, so far as we are aware, a single soap in the English or any other market which would stand all these tests. To-day toilet soaps, as a rule, are better than they were, but they still leave much to be desired. Many of the leading soap-makers, perceiving the practicability of our ideas, have imitated us, and "cream" soaps have become the craze. One maker says the cream in his soap comes straight from the cow, and that it is a *sextuple* (?) cream soap (or something of the kind); so we may shortly expect to hear of a soap which is pure cream, and nothing but cream. The "cow with iron tail," so far as we can judge, is the main source of much of the cream employed. From cream we pass to butter. "Thames butter" is well-known to the soap-making fraternity, and calls up visions of Barking Creek. It is mainly fat which has gone undigested through the body into the sewers, thence passed into and risen to the surface of the Thames, and there been collected for soap manufacturing. "Upright Water" is an expression often heard in soap circles. It does not mean that the water is pure and potable. Not at all. It refers to water contaminated with, say, 25 per cent. of soap and silicates, and thereby made to assume the **appearance of soap**. This "Upright Water" is what upright (?) soap-makers turn out that the retailer can sell the public water, when they ask and pay for soap. This plan, which enables a person to carry his "soap and water" in his pocket, mainly benefits the soap-maker's pocket at the expense of the purchaser's skin. The popular notion is that soft water is the best for soap, but the soap-maker's design appears to be to harden and stiffen it, and, like the dry bones of old, make it stand upright. Alkaline soaps, soaps made with rancid fats, "sugared" transparent soap, silicated soaps, and such like we suppose there will be "till time shall be no more." But that there will be more and more "honest soap" in reality as well as name is probable. In the case of "Vinolia" Soap we have never sent out a tablet that was alkaline or made of cheap materials. It is an actual fact, which will surprise not a few, that we have seen imitations of "Vinolia" Soap manufactured in London which were "loaded"—what some call "glass soap"—*i.e.*, soap charged with silicate. The soap trade itself is beginning to see that we have benefited it more than any other firm for a hundred years by creating a demand for a pure soap—something better than was formerly in vogue. Threepence-halfpenny was supposed to be the high-water mark, above which people would not go in buying soap. So the various makers made soaps to sell below this point, and running one against another finally made soaps to sell at a halfpenny a tablet. And the worst of it was these soaps were not branded "dog soaps," but were actually sold for human use. We almost wonder that these makers did not put their soaps in bottles and sell them as "blistering fluids." When one thinks of the so-called soap the public have been using, he is constrained to marvel, not at their cleanliness, but at the toughness of their skins. Six years ago the soap trade was perfectly demoralised. The retailer was compelled to handle soaps which did not yield that share of profitable business which so popular an article of everyday use should, while to-day he finds "Vinolia" Soap with an almost unprecedented demand yielding him a profit which no good business man should sneer at. **Selling a box of each of our Soaps, of Cream, and Powder, with a Shaving Stick every day, yields a profit of £1 a week.** Is not this satisfactory business? What more can you ask? Do you know of any products that would pay you as well? Do you handle it? And if you do not, are you aware that your neighbours do, and make a very good thing of it, too? Anyone who is not doing a large business in "Vinolia" Soap at the present time can rest assured that it is not the fault of the Soap. The Soap is all right. Never, never, never have the sales of it been so large as now. We honestly do not believe there is another high-class Soap in the world with so large a sale.

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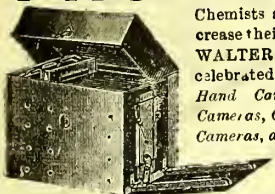
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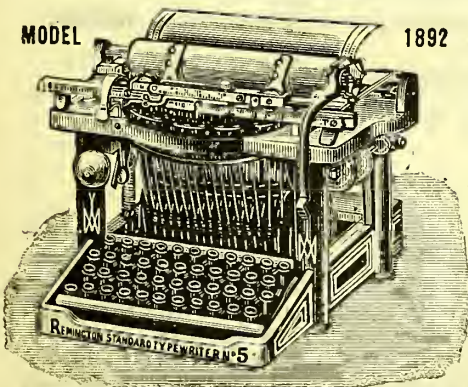
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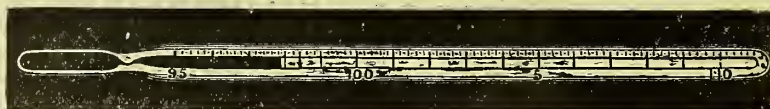
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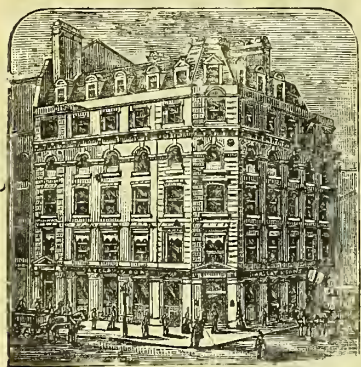
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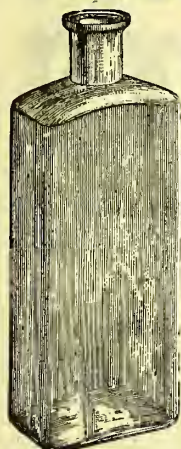
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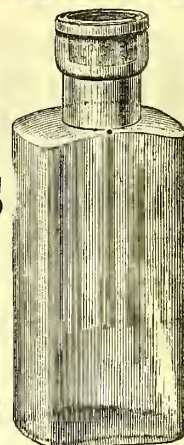
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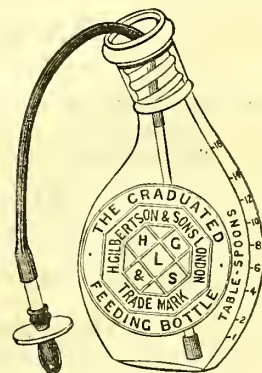


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Messrs. BERDOE & CO. beg to inform Gentlemen desirous of selling their Businesses that they have a number of Clients unsuited desirous of investing from £500 to £2,000 cash in genuine concerns. Particulars will be received, in strict confidence, and terms sent on application as above.

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2.—**SOUTH WALES.**—Light Retail, Dispensing, and Prescribing Business; returns £1,100; net profit £250; in centre of increasing town; large house; price £250; owner retiring; every investigation.

3.—**BERKSHIRE.**—Light Retail, Dispensing, and Prescribing Business; returns £700, net profit £300; double-fronted corner shop; good house, wide entrance; well fitted and stocked; price £575.

4.—**LINCOLNSHIRE.**—Retail, Dispensing and Prescribing Business in good market town; returns £800, net profit £300; low rent; good house and premises in centre of town; price £500.

5.—**SOUTH COAST.**—Good-class Retail and Dispensing Business in rapidly increasing locality; returns £1,000; handsomely fitted shop, well stocked; satisfactory reasons for selling; price £650.

6.—**KENT.**—Unopposed Retail and Prescribing Business; returns £1,200 weekly under indifferent management; rent £25; good house, suitable, large cultivated garden; price £140 or valuation.

7.—**HAMPSHIRE.**—Unopposed Retail and Dispensing Business; returns £11 weekly, net profit over £4 10s. weekly; good house and garden; could let off all rent; price £300.

8.—**GLoucestershire.**—Genuine good class Retail, Dispensing, and Prescribing Business, capable of being increased; returns £600; rent £28; good house; shop well fitted and stocked; price £350.

9.—**RAMSGATE.**—Retail and Dispensing Business at full prices, returns £600, with scope for unlimited increase; excellent position; good house, suitable for letting; price £425 or offer.

Particulars of the above and others sent free on application.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**CHEMIST'S** Business, old-established and well situated, in large Northern town; returns about £400; capable of great extension under personal management. £4/3d. Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**YORKSHIRE.**—Retail and Prescribing Business, in manufacturing district; returns nearly £1,000; no advertising firms; stock and fixtures at a valuation; small goodwill required. 88/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SOUTHPORT.**—A genuine, newly-established Business in a rapidly increasing suburb; Post-office attached; a good opening for a young man; stock and fixtures at valuation. Address, 88/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,  
**15 WALBROOK, E.C.**

**LONDON, N.**—Specially recommended; an old-established Retail Dispensing, and Prescribing trade, in first-class position main road; returns £800, and capable of great increase; the Vendor, being about to succeed to his father's business in the provinces, will accept £400, which is less than the value of the stock and fixtures.

**LONDON, W.**—An exceptionally good investment; Retail and Prescribing trade, in marketing thoroughfare; returns £450; profits about 50 per cent.; price £275, or valuation; strongly recommended.

**INLAND HEALTH RESORT.**—First-class Dispensing Business at full prices; returns about £800; price, valuation.

**HOME COUNTY.**—Good-class Dispensing trade, in best part of pretty market town; returns £600; price £550; worth attention.

**KENT.**—Light Retail and Dispensing and Prescribing; in improving neighbourhood; rent £37; price £450.

**BERKSHIRE** (Death vacancy).—Country Retail and Dispensing trade; returns under management £700; price £450, or offer.

**NO CHARGE TO PURCHASERS.**

**VALUATIONS A SPECIALITY. TERMS ON APPLICATION.**

## GRIMWADE, RIDLEY & CO.,

Wholesale Druggists and Valuers, IPSWICH,

Have instructions to offer for sale the Business successfully carried on for upwards of 40 years by late proprietor, well situated in a market town of Suffolk; returns about £800; rent £35; price £400. For terms and particulars apply as above.

## BUSINESSES FOR DISPOSAL—Continued.

**FOR** disposal, a Chemist's Shop and Business; death of proprietor cause of leaving; well fitted, with valuable working patent attached, good opening for Dentist; no premium; village in Devonshire. Apply, J. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ANTWERP.**—Death vacancy.—An old-established capital Business, dealing principally and largely with English and American ocean-going vessels. Apply, Mrs. de Witte, Medical Hall, 21 Ververstreet, Antwerp.

**FOR** disposal, old-established and only exclusive Wholesale and Retail Surgical Instrument and General Sundryman Business; thorough-going concern; large scope; proprietor retiring. Address, "Bank," 21 Bank Street, Hull.

**CHEMIST'S** and Druggist's Retail and Prescribing Business for Sale, in Leeds; leading thoroughfare; immediate possession; established over 50 years; shop modern; fittings and fixtures new; rent low. Apply, "Kompo," Lovington Laboratory, Benson Street, Leeds.

**WHOLESALE** Drug Business in the City, doing a profitable trade of £3,000 per annum, capable of great extension; price required for everything about £1,000; capital opening for anyone wishing to enter the Wholesale trade. For further particulars, apply to Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, City.

**CHEMIST'S** Business for disposal, in Berkshire market town; old-established, genuine concern; Prescribing, Dispensing, and usual Retail, and Horse and Cattle Medicines returns about £700, price £350, part could remain; great scope for increase. J. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£520.**—Very old-established Business, in small market town in Hampshire; full prices except patents; average returns, last 3 years £560, last year £590; still increasing; profits £250; good garden, greenhouse, large stores, and stables; rent £34. "Acacia," 9/o Barron, Harveys & Co., Giltspur Street, London.

**A** N old-established Business in leading thoroughfare, North London; one of a very few capable of great extension; convenient house, large garden; long lease; low rent; in the hands of an energetic man returns, £450, could be doubled; price £375, or by arrangement. For particulars, letters, N. Costyn, 39 Burlington Road, W.

**£350.**—Good-class, select Retail, Dispensing, and Prescribing Business, country; returns about £600, net profit £240; a bargain; shop well stocked and splendidly fitted; good house, on long lease; price to an immediate cash purchaser £350. "Mag. Cit," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WEST OF ENGLAND.**—An old-established Business, conducted by present owner for nearly 40 years; retiring; good class family trade; market town; returns £1,400; no goodwill asked; valuation of stock and fixtures will secure it; estimated at £1,000 to £1,200. "Carbon," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SOUTH COAST.**—For immediate disposal, the nucleus of a business; good opportunity for energetic Chemist; opening for Dentistry; premises also for disposal, purchase optional, but purchase money for which can remain on mortgage; come and see; owner wishing to quit the trade. "Senior," 4 Lower Clarence Terrace, Silverhill, St. Leonards.



## BUSINESSES FOR DISPOSAL—Continued.

**IN** one of the leading towns in the West of England.—A first-class Light Retail, Prescribing Business, with Wines and Spirits; returns have averaged £1,900 for last 3 years; handsomely fitted; good stock; large house. Address, N. M., 62 Ore-cent Road, Reading.

**OLD-ESTABLISHED** Business, with valuable Proprietaries; corner shop, in main thoroughfare; returns £600; capable of great extension; full investigation invited; rent low; good house; long lease could be had. Price, with full particulars, on application to H. Lavender, 11 Cavendish Road, Rotton Park, Birmingham.

**£800.**—London, W., in select residential locality.—First-class Retail and Dispensing Business; returns last year almost £1,000 rapidly increasing; very handsome pharmacy; first-class position; price £800; rent £100, the whole of which can be cleared by letting, if desired. West, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**OLD-ESTABLISHED** ready money Light Retail, Dispensing, and Prescribing Business in small busy market town; offered on account of illness; last year's returns nearly £600; very little opposition; price £450; good house and premises; moderate rental; an offer would be considered. "Spero," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SOUTH COAST** A Light Retail, Dispensing, and Prescribing Business; increasing; main road, near sea; established 4 years; well-stocked, nicely-fitted shop; comfortable house, long lease, rental low; capital required about £400; satisfactory reasons for disposal; no agents. Apply, A. J. Carr, care of Messrs Wright, Layman & Umney, 50 Southwark Street London, S.E.

**£2,500** returns; Yorks; population 15,000; almost unopposed; general Retail and Prescribing; well suited for two pushing men, who could much increase returns; it is seldom that such an opportunity presents itself, as this is thoroughly genuine, and will bear close investigation. Apply, R. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

**TWO** Businesses for immediate disposal, both under management. One in London; returns £750, with good prices; £600 required, half of which could remain. The other in Sussex, country town on main line; good residence; large garden; price £400. Each capable of considerable increase under principals. "Ambo," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**GENUINE** Retail Drug Business for sale; established 20 years ago by present proprietor, who is retiring from retail; long lease, as lock-up shop, or with house; 10 minutes from London Bridge, Surrey side; thickly populated; very brisk ready-money drug trade, with two or three good proprietary lines. Address, "Practical Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£300.**—Genuine small Business in vicinity of London (30 minutes from City by rail); good residential neighbourhood; no opposition; Dispensing, Prescribing, and own specialities; full prices throughout, including patents; would suit a gentleman accustomed to a good class of customers. Full particulars from S.W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£460.**—For immediate disposal, a genuine Concern (established over 20 years); Retail, Prescribing, Dispensing, and profitable Proprietaries; long lease; returns over £600; good house; low rent; populous neighbourhood, and well situated on the G. W. Railway (main line). For particulars, address "Medico," c/o Messrs. Battley & Watts, 2 Whitecross Street, Cripplegate, London.

**NOTTINGHAMSHIRE.**—For disposal a small Retail and Prescribing Business, situated a few miles from Nottingham; the shop is splendidly fitted up and fairly well stocked; no opposition whatever; valuation low; capital business being done; this business would suit one just commencing with a small capital; will be sold at a sacrifice to effect a speedy sale. Address "Menthol," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**DENTAL** practice or partnership wanted, in town or country, by a Surgeon (30) with experience in Dentistry; no objection to drug business in connection. Give full particulars to "Surgeon," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, immediately, in or near London, a reliable Retail and Dispensing Business, returning about £1,000 a year. Advertiser is prepared to pay cash up to £1,150, and can find good security for more if required; references exchanged. "Major," c/o Chemist, 94 St. Mary's Road, Walthamstow, Essex.

## FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**TO** young men commencing business and Chemists refitting.—To be sold, by private treaty, those handsome Spanish mahogany fixtures at the shop, 225 Oxford Street, lately occupied by John Wild and formerly by Mr. Louis Sichel. For particulars apply to John Wild, 307 Oxford Street, Manchester.

## TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**SHOP** and Basement to be Let in the City, in Cornhill and the Poultry; rents £250 and £282; suitable for a chemist, optician, &c. Apply to Mr. I. Stopher, Estate Agent, 5 Birch Lane, Cornhill.

**TO** be Let, from Michaelmas next, excellent premises in Lower Marsh, Lambeth, in which a Chemist's Business has been carried on for the last 50 years; no premium. Apply to Mr. R. W. Seobell, 25 Bucklersbury.

**DISPENSARY** Premises, completely fitted, newly decorated and repaired, in commanding corner position at Notting Hill, to be Let or Sold; excellent opening for medical man. Full particulars of the Sole Agents, Messrs. S. & H. Grant & Co., 6 Lower Notting Hill Terrace, W.

**TO** Electricians and Manufacturers.—Freehold Waterside Premises to be let or sold, with steam-boilers equal to driving steam-engine 500-h.p., to which can be added 1,000-h.p. more of boilers if required; there is a plant capable of working from 10 to 15 tons of tartar per week, and 30 pipes of lemon-juice, with room for extension, with the advantage of steam for evaporation and driving power free of cost; if plant is not wanted, premises with steam power can be taken separately. Apply, by letter, to B., Messrs J. Beal & Son, East Street, Brighton.

## SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**QUALIFIED** Assistant as Dispenser, at once. Apply, Judd & Co., Leamington.

**AT** once, Junior Assistant, accustomed to good-class country trade. E. H. Dyer, Pharmacist, Honiton.

**ASSISTANT**, from 21 to 25, for Light Retail and Dispensing business. Bushby & Son, 41 Stockport Road, Manchester.

**WANTED**, qualified Assistant; indoors. Apply, stating usual particulars, to Gaultier, 6 West Street, Fleetwood, Lancs.

**ASSISTANT** wanted immediately for Dispensing and Light Retail business; qualified; indoors. P. H. Llewellyn, 4 Victoria Terrace, West Brighton.

**AN** Assistant; about 23; outdoors; Light Family, Retail, and Dispensing. Apply, with full particulars and photo, to C. R. Sharman, Chemist, Gravesend.

**WANTED** immediately, an Assistant for first-class Dispensing Business; qualified; indoors. Address, "Ryle," c/o Messrs. Evans, Sons & Co., Liverpool.

**ASSISTANT**, with experience of Laboratory and Buying departments in Wholesale Drug trade; 25 to 30. By letter to A. C., 66 Dresden Road, Hornsey Lane, N.

**WANTED**, a competent Assistant (outdoors) for a good-class Retail and Dispensing business. Apply, with full particulars, to George Gange, Enfield Town, N.

**AN** Assistant, of good experience, about 25. Apply, with usual particulars, to W. R. O., c/o Messrs. Heaton, Squire & Francis, 38 Southwark Street, London, S.E.

**QUALIFIED** Assistant, for good country business, aged not under 25. Full particulars to G. W., c/o Meggeson & Co., Miles Lane, Upper Thames Street, London.

**QUALIFIED** Assistant (indoors). Apply, with full particulars, enclosing carte (to be returned), to W. Coleman, Chemist, Worcester Street, Wolverhampton.

**GILES, SCHACHT & CO.** require a Junior, chiefly for Laboratory work; must have served in a good Dispensing business; salary £30. Send full particulars to Olinton, Bristol.

**JULY 20.**—Wanted, Junior Assistant; one just out of his time, with experience in Country Mixed Business. Send photo, and state salary and reference to Johnson Cripps, Reepham, Norfolk.

## SITUATIONS OPEN—Continued.

**IMPROVER.**—Wanted, a steady young man in Light Retail and Dispensing business. State age, height, experience, and full particulars to A. Hill, Chemist, Winchcomb Street, Cheltenham.

**WANTED**, a qualified Chemist for Analytical Laboratory in large firm; must be thoroughly up to analytical work. Apply, O. D. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**J. C. POTTAGE**, Homeopathic Chemist, 117 Princes Street, Edinburgh, is in want of an active and obliging Assistant (outdoors); state salary, with references; a knowledge of Homeopathy is not essential.

**A** **COMPETENT** Assistant, well able to Dispense; about 23 years of age; also an Improver or Junior; capital opportunities for experience. Send full particulars, with carte, to J. Jewell, 151 London Road, Liverpool.

**WANTED**, for a City Branch, beginning of September, a qualified Manager (outdoors); must have City experience. Apply by letter, with full particulars, to "Beta," c/o Messrs. Borne & Bone, Mitre Square, Aldgate, E.

**A** **THOROUGHLY** qualified experienced man wanted as Manager or Partner in a country business in the West of England; good terms to a suitable man. Apply, "Fides," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DRUG AND DRYSALTERY.**—Wanted immediately, an experienced and steady man to travel 3 or 4 days a week; remainder of time indoors. Apply, giving full particulars of salary and references in first letter, to Hy. S. Hogg, Ulverston.

**NATAL.**—Competent Assistant; qualified preferred, but not essential; from 20 to 25 years of age; 3 years' agreement; passage paid. For full particulars apply, Export Department, S. Maw, Son & Thompson, Aldersgate Street, London, E.C.

**A** **QUALIFIED** Assistant; aged 25; a pushing, energetic, gentlemanly business man; able to take charge of new Branch when required; business mixed; exceptionally good references essential. State salary (outdoors), Gibson, Burton-on-Trent.

**PART-TIME.**—Assistance wanted evenings, in return for lodging, part board, and small salary; suit a medical student who has passed the Minor; comfortable home; good references necessary. "Chemist," 511 Fulham Road, S.W., past Walham Green.

**A** **QUALIFIED** Assistant, aged 25 to 30, able to take charge of New Branch when required. Apply, stating salary (outdoors), references, and the usual particulars, to John Taylor, Chemist, Rochdale. Applications not answered in 3 days declined.

**WING, APLEN & CO.**, Chislehurst, are in want of an active Dispenser, used to a high-class trade, qualified, and having had good experience; good salary and a comfortable home to a suitable gentleman. Applicants please forward photos (returnable).

**MESSRS. BAKER & WRIGHT**, Chelmsford, have vacancy for good Minor; 3 and apprentice kept. Please furnish full particulars of salary required (indoors), details of experience, age, height, when engaged, and if possible C.D.V., to be returned.

**WANTED**, qualified Assistant as Manager for chemist's widow in light Retail business; must be first-class Dispenser and Prescriber. Apply with full particulars, enclosing photo and references with salary required (indoors), to Mrs. Dolman, Cheltenham.

**ASSISTANT** (indoors) for good Country Retail and Dispensing; salary £40 per annum; good counterpane, and obliging. Apply, stating age, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Saffron Walden.

**M. R. STAMP**, Hampstead, N.W., will have a vacancy early in July for a qualified man as Assistant; 3 kept; must have been accustomed to good-class trade; comfortable home, good salary, and short hours; if possible, enclose photo, which will be duly returned.

**IMMEDIATELY** (for Ostend).—M. A. de Cock, Pharmacie Centrale, 16 rue des Sœurs Blanches, Ostend, is in immediate want of an Assistant, with a knowledge of English and German, and (preferably) with some acquaintance with French; send photo. Address as above.

**QUALIFIED** Assistant wanted, for Dispensing business in first-class London suburb; two kept; abstainer preferred. Please state full particulars and salary required (indoors), and send photo (to be returned), to "Ph.C.," c/o Messrs. Heaton & Co., 38 Southwark Street, S.E.

**WANTED**, in good growing Wholesale Drug and Essence trade to the country, an active Partner with at least £1,000, with view to ultimate purchase; must be a competent Traveller; principals only. Apply, "Opal," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AN** Assistant (indoors), about 21 years of age, accustomed to a Country business. State full particulars as to age, salary, experience, with reference, to H. Barton, Pharmaceutical Chemist, St. Ives, Hunts.

**OUTDOORS.**—Wanted, a Qualified Assistant as Third Dispenser; also a Junior (one from the country preferred). Apply, with full particulars, to J. K. Maiterson, 108 New Oxford Street, W.C.

**JULY 8**, Junior Assistant, with Country experience; about 21; one used to small Wholesale and Agricultural business preferred. Salary required, photo, age, height, and references, to Fred J. Oliver, Chemist, Maldstone.

**AN** active Assistant (indoors) where others are kept, in a first-class Dispensing and Mixed Country business; easy hours; healthy locality; state age, height, salary required, and when disengaged; enclose photo. Dixon, Chemist, East Grinstead.

**FRANCE, BIARRITZ.**—At once, a good English Assistant, well up in his business; in application please state age, salary required, where last employed, experience, whether qualified, and length of engagement desired. Apply by letter to London Dispensary, Place St. Eugénie 19, Biarritz.

**MARRIED** Assistant wanted, not necessarily qualified, to reside at pharmacy; young and good Dispenser; character must bear strictest investigation; no encumbrances. Apply by letter first, stating age, salary, experience, and references, to "Camera," 27 London Road, Croydon.

**H. B. PARE**, Chemist Bolton, requires 3 qualified Managers: 2 suited to Lancashire business (married); 3 good Prescribers and Tooth Extractors. Terms: salary £84 free house with gas, rates, and water, and 5 per cent. on net profit. Permanent and improving to good men.

**AN** Assistant for good Country Retail business; hours 8 to 8; Thursdays 8 to 4; Saturdays 8 to 10.30; no Sunday duties; comfortable home; time for study if required; state age, height, salary required, references, &c.; enclose photo (to be returned). W. Wilkerson, Victoria House, Rushden, North Hants.

**A** **GENTLEMAN** of good address and business habits (must be a neat and reliable Dispenser) for a Light Retail and Dispensing business, W. Write, enclosing carte (which will be returned), and full particulars, length of time in last situation, salary expected, W. T. M., c/o Messrs. Meggeson, Upper Thames Street.

**WANTED** immediately, active Junior Assistant, who can be well recommended for a quick light good-class Retail and Dispensing business; Senior kept; good hours, with weekly half-holiday; 2 hours duty alternate Sunday evenings. Apply, with full particulars, to Messrs. Jno. Cross & Co., Pioneer Drug Store, Reading.

**AT** once, smart Counterpane (indoors); Branch, N.W.; liberal terms to anyone seeking permanency, and having experience of brick Cash business; must be able to take charge in absence of manager. Apply, stating full particulars, to H., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C. Also vacancy for competent Dispenser.

**BRANCH MANAGER.**—An energetic qualified man wanted early; must have been used to pushing business; store trade; one desiring permanency; able to extract teeth and prescribe. Apply, with references (photo if convenient), stating age, whether married, when at liberty, and salary expected (outdoors), Secretary, Central Drug Company (Limited), Newcastle, Staffordshire.

**A** **JUNIOR** Assistant, outdoors, of good address and appearance, for a select Branch Pharmacy under manager, required the beginning of August for the season; must be a neat and accurate Dispenser. Apply, giving references, stating weekly salary required, and enclosing photo (to be returned), to R. Hayton Davis, Pharmacist, High Harrogate.

**ADVERTISER** requires a steady, honest, qualified married man to manage Branch business on South Coast, for permanency; reliable testimonials required; unfurnished house of 6 rooms; salary 30s to commence; if able to add Photography or Dentistry mutual terms arranged. Hants, care of Barclay & Sons, 95 Farringdon St., London, E.C.

**GERMAN HOSPITAL**, Dulton.—The appointment of Second Dispenser becoming vacant on July 23, candidates are requested to send in their applications and testimonials as to qualification and character to the undersigned on or before Wednesday, the 13th of July; the salary, besides board and lodging, commences at £36 per annum, and will be increased if the candidate appointed gives satisfaction. H. Gilleh, Hon. Secretary.

**BOOTS**, who do a large, quick Cash Chemists' business, and have over 20 branches in Manchester, Sheffield, Nottingham, Lincoln, Derby, Grimsby, Burton-on-Trent, &c., have from time to time vacancies for first-class qualified Assistants in either sharp town trade (no heavy oils, &c.), in good-class Dispensing, or in Agricultural trade, and will be glad to receive names of suitable men who are open to treat for permanent situations, affording every prospect to men of capacity of eventually having the management of large and important branches; must be energetic, trustworthy, and have several years' good references; young men preferred capable of taking management of a branch if required; no Sunday or night duty; full half-holiday weekly. State age and experience, references, and salary required (outdoors) to Boots (Limited), Nottingham.



## SITUATIONS OPEN—Continued.

**S. T. PANCAS.**—Dispenser required, for the Infirmary at Dartmouth Park Hill, Highgate, N.W.; salary £100 per annum, rising by £10 annually to £120, with dinner daily; candidates must be Licentiate of the Apothecaries' Company of London, or must have passed a Major or Minor examination of the Pharmaceutical Society of Great Britain. Applications (to be made on forms to be obtained at this office), accompanied by not more than 4 testimonials of recent date, to be forwarded to me by Wednesday, the 6th July, and candidates should attend a meeting of the Guardians to be held on Friday, the 8th July, at 4.30 p.m., at the Infirmary, Dartmouth Park Hill, but no travelling or other expenses will be allowed.

By order,  
Vestry Hall, Panoras Road, N.W., ALFRED A. MILLWARD,  
June 27, 1892. Clerk.

## SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

**JUNIOR**; aged 20; 4 years' experience. "Fides," 1 Oxford Place, Doncaster.

**IMPROVER** (20); country preferred. A. D., Fern Cottage, Penn, Amersham, Bucks.

**TEMPORARY**; disengaged July 12th to 23rd. Harold, Mr. Cole, Chemist, Leatherhead.

**ASSISTANT**; Wholesale or Retail; 7½ years' experience. Clap-2, Ham, Cranwick, Hull.

**JUNIOR** (19), 5 ft. 6½ in., in good business; abstainer. Davis, c/o Tudor, Chemist, Brecon.

**LOCUM-TENENS**; disengaged July 8; qualified; highest references. 20 The Britton, Devizes.

**ASSISTANT**; aged 25; good Counterman and Dispenser. J. Horne, 4 Swan Hill, Stewsbury.

**AS** Dispenser to Surgeon, or as Junior. Warrick, 50 Tillingham Street, Sparkbrook, Birmingham.

**DISPENSER**; whole or part time; good references. Richards, 86 Dalberg Road, Brixton.

**ASSISTANT**; qualified; aged 23; West or N.W. preferred. 15 Trinity Street, Borough.

**LOCUM** or Manager; temporary or permanent; qualified; disengaged. East Lyane, Llandudno.

**JUNIOR Dispenser**; London; aged 20; height 5 ft. 6 in.; good references. A. P., The Limes, Merthyr.

**TEMPORARY**; qualified; highest references. Frank Road, 27 Grosvenor Road, Tisbury Wells.

**MANAGEMENT** or Temporary; disengaged July 18; married, no children. 297 High Street, Poplar.

**LOCUM TENENS**; disengaged; good. Extractor; aged 25. "Roger," 2 Horton Street, Lewisham.

**MINOR**; married; aged 26; 10 years' London and country experience. Skelton, Tillingham, Essex.

**LOCUM Assistant**; qualified; disengaged; low terms. B. O., 86 Adolphus Street, Deptford, London.

**ASSISTANT**; 23; indoors; experienced; disengaged. W. H. Wilcock, 76 Caldwell's Road, Penzance.

**LOCUM Assistant**; experienced Dispenser; day, week, or month. "Minor," 65 Battersea Park Road, S.W.

**PART-TIME** for board and lodgings, or Locum-Tenens; aged 22. B. P., 42 Trinity Square, Borough, London.

**LOCUM**; experienced; 30; abstainer; highest references; disengaged. N., 64 Kebble Road, Bootle, Liverpool.

**LOCUM**, Dispenser to Surgeon, or otherwise; aged 27; experienced. G. Michel, c/o W. Steeples, Chemist, Towey, Cornwall.

**DISPENSING Assistant**, aged 25, with Store experience. 90/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AS Junior**; accustomed to good-class Retail and Dispensing business; good reference. "Boas," 11 Childebert Road, Balham, S.W.

**MANAGER**; qualified; Tooth Extractor; married; London preferred. "Lapins," 3 Westgrove Terrace, The Point, Greenwich.

**ASSISTANT** (24); good references and experience; outdoors. Tovey, c/o Mr. Jones, 8 St. John's Road, Waterloo, Liverpool.

**JUNIOR**, aged 20½, 5 ft. 10 in., with good character, requires situation in high-class business. Maurice Smith, Lea Farm, Kidderminster.

**ASSISTANT**, Senior (26); Major qualification; highest references. 90/1, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; 7 years' good Dispensing experience and select Retail; 23, 5 feet 7½ inches. "Kino," 15 Palmerston Street, Stoke, Devonport.

**TRAVELLER**.—Young man seeks re-engagement; good address; connection. J. M. A., care of Mr. Hind, Chemist, Clarendon Park, Leicester.

**ASSISTANT** or Locum; at liberty July 8; West-end preferred; abstainer; 6 ft. 2 in.; 24; qualified; references. Retallick, 45 Wigmore Street.

**ASSISTANT** or Manager; 12 years' experience; aged 23; married; outdoors. "Lex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER** or Senior; qualified; married; good Prescriber, Dispenser; 19 years' experience; good references. Dawson, 23 High Street, Leamington.

**MANAGER** or otherwise; outdoors; married; permanency; qualified; over 20 years' good experience. M. S. G., 63 Wolseley Road, Lowfields, Sheffield.

**DISPENSER**; Surgeon or Chemist; part-time or otherwise; Hall qualification; outdoors; City experience. "Antipyrin," 42 Trinity Square, London, S.E.

**SUNDRIES**.—Gentleman wishes to enter Sundry house; young; good references. 61/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DISPENSER**; experienced; Major; outdoors; 9 years' experience; excellent references. 90/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AS Assistant**, in good-class Retail and Dispensing business (outdoors); married. Address, stating salary, hours, &c., "Chemist," 41 Lower Cathedral Road, Cardiff.

**LIGHT PORTER**.—G. Cheetham, Chemist, Louth, wishes to recommend young man (aged 21) as above; has been in advertiser's service six years; wages moderate.

**ASSISTANT**; Prescriber, Extracts; married; aged 35; 3 years' last situation; permanency; unqualified. 4 Woodland View, Arboretum Avenue, Lincoln.

**SITUATION** wanted in Drug Trade; Wholesale preferred; experienced; aged 29; permanency. "Opoponax," Young Men's Christian Association, Leicester.

**TO Chemist or Surgeon**.—A quick and accurate Dispenser; disengaged till 2.30 p.m. and after 5 p.m.; 14 years' experience; highest references. O., 98 Sandmere Road, Clapham, S.W.

**DISENGAGED** July 16th; first-class Store and Dispensing experience in England and America; good counterman; highest references. Colson, 6 St. John's Road, Upper Holloway, N.

**AS Locum-Tenens** during next two or three weeks; Minor; aged 34; references. Please state all particulars, to save time. "Extractor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, by a Chemist, who has been Manager of Drug department in a large store in London, a similar position, or to manage a business on store lines. "Chemicus," 65 Panlet Road, Camberwell, S.E.

**MANAGEMENT** of cash business wanted by qualified man, thoroughly experienced in such; aged 31; first-class references; disengaged. Roberts, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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**TO Soluble Essence Manufacturers and Essential Oil Importers**.—A gentleman, calling on Mineral Water Makers, Confectioners, and Chemists, is open to commission; ground, South Coast and Scotland. "Caramel," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AN experienced Merchant**, many years Commercial Manager of one of the largest Chemical Works in Germany, starting for his own account at Hamburg, wants to act as Buying and Selling Agent for a large English house; is thoroughly acquainted with all German sources and outlets, and at disposal a well-conducted Chemical Laboratory; sufficient moral and pecuniary security. None but first-rate houses need apply, by letter, to H. O. 65511, c/o Haasenstein & Vogler, A.G., Hamburg.

## SITUATIONS WANTED—Continued.

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**JUNIOR**, aged 21; time for reading; outdoors preferred. Hughes, 165 Gray's Inn Road.

**LOCUM-TENENS**; 35; qualified; reliable; disengaged. "Minor," 8 Castle Street, East, W.

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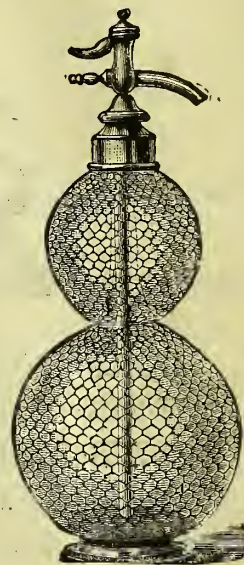


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SYPHONS ... 1/6 1/8 and 1/10 each.

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1	2	3	4	5	8 pint.
5/6	6/2	7/	8/	9/11	15/6 each.

Including two funnels and stopper for charging.

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PRIZE MEDALS  
AWARDED.

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ENGLISH MAKE.

Perfect Action. Full Strength. Best Workmanship. Thoroughly Reliable. Well Tested. Metal Guaranteed Free from Lead. Lowest Prices consistent with First Quality.

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The "MAJOLICA" Porcelain Lined Heads

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Metallic contamination of the waters utterly impossible. Vide *The Lancet*, 30 April, 1890, and other scientific opinions.

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ONLY PRIZE MEDAL,



LONDON, 1881.

RAISED BY THE  
PERSISTENT ENERGY  
AND GREAT CARE  
OF CHEMISTS

Year	No. of Members	Dividend
1878	119	None
1879	350	None
1880	430	None
1881	540	None
1882	615	3½
1883	708	5

TELEGRAPHIC ADDRESSES:

Rubine, London.  
Chemists, Starbeck, Harrogate.  
Camwal, Bristol.

HIGHEST PRIZE MEDAL,



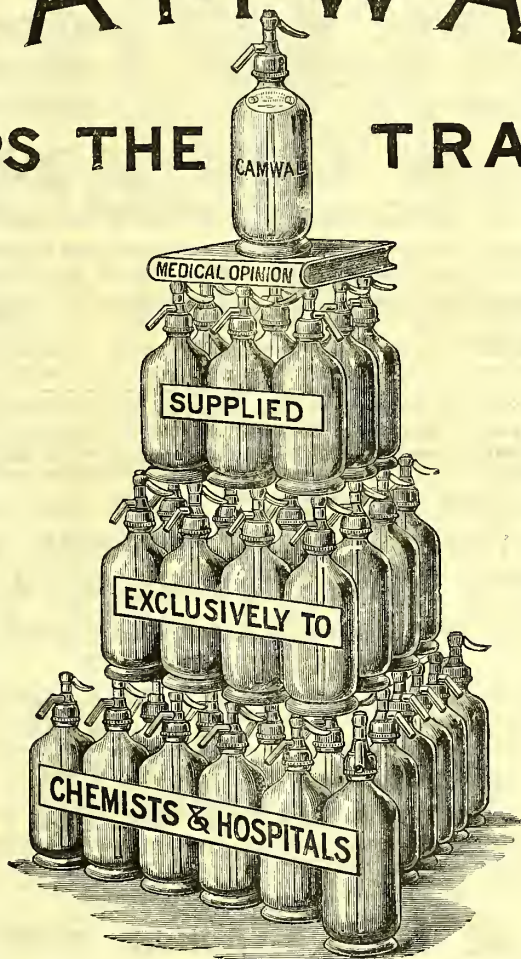
BRADFORD, 1882.

STRENGTHENED AND  
SUPPORTED BY THE  
APPROBATION OF THE  
MEDICAL PROFESSION

Year	No. of Members	Dividend
1884	908	6
1885	1,193	9
1886	1,463	6
1887	1,612	7½
1888	1,892	5
1889	2,041	7½
1890	2,088	8½
1891	2163	10%

TELEGRAPHIC ADDRESSES:

Rubine, London.  
Chemists, Starbeck, Harrogate.  
Camwal, Bristol.



This Company manufactures the various descriptions of Mineral Waters of the highest class and of specified formula, and supplies **ONLY** Chemists and Hospitals.

## PRICES.

		In Corked Bots.	In Syphons.							In Corked Bots.	In Syphons.
Carbonated Water	"	5 Grains to Half-Pint	1/-	1/8	Lime Juice	"	"	"	"	1/-	2/6
Soda	"	"	1/-	1/8	Ginger Ale	"	"	"	"	1/-	2/6
Soda	"	B.P. 15	1/-	1/8	Ginger Beer, Glass	"	"	"	"	1/-	2/6
Potash	"	5	1/-	1/8	Lithia, B.P., 5 grains to Half-pint	"	"	"	"	1/6	2/6
Potash	"	B.P. 15	1/-	1/6	Iron and Quinine Water	"	"	"	"	1/6	—
Seltzer	"	"	1/-	1/6	Mineral Acid	"	"	"	"	1/6	—
Lemonade	"	"	1/-	2/6							

Syphons, 24s. per dozen.

Cases—3 dozen 3s. 6d.; 4 dozen 4s. 6d.; 6 dozen 5s. 6d. each.

Empties allowed for at same prices.

3d. per dozen charged extra for the delivery of Syphons in London.

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SAMPLE CASE OF WATERS SENT FREE.

Handbills with Name and Prices supplied gratis to Shareholders.

The Chemists' Aerated and Mineral Waters Association, Limited,  
LONDON, HARROGATE, & BRISTOL.



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AND EXTRACT OF  
118 BISHOPSGATE ST. MEAT COMPANY, LIM.,  
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TELEGRAPHIC ADDRESS .. .. "DENAAYER LONDON."

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between the fictitious nutritive value of such invalid foods as are mainly composed of Gelatine or the extractive matters of meat, or both, as many so-called peptones, meat essences, &c., are, and the true

## STRENGTH OF MEAT,

which is not yielded by its GELATINE nor by its EXTRACTIVES, but by the ALBUMINOID matters it contains, and which, by Denaayer's process, are dissolved and converted by pepsine into a delightful and elegant preparation.

See THE LANCET, May 2nd; HOSPITAL GAZETTE, June 5th; CHEMIST AND DRUGGIST, April 16th; ANALYST, May 1st. upon Mr. Denaayer's new method for the Analysis of Peptones, whereby the gelatine is capable of determination, whereas this body has hitherto been unavoidably included with peptone albumose by analysts.

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(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopoeia.  
MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

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NATURAL FOOD.**

The MOST DELICIOUS and LEAST COSTLY, for

**BABIES, CHILDREN (any age), INVALIDS, AND ADULTS.**

The INVENTION of

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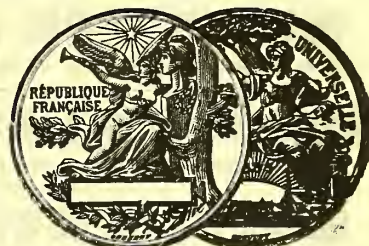
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For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

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Make a Delicious and Nutritious Jelly. In 1-pint, 1-pint and Quart Boxes, 3d., 6d., and 1s. each.

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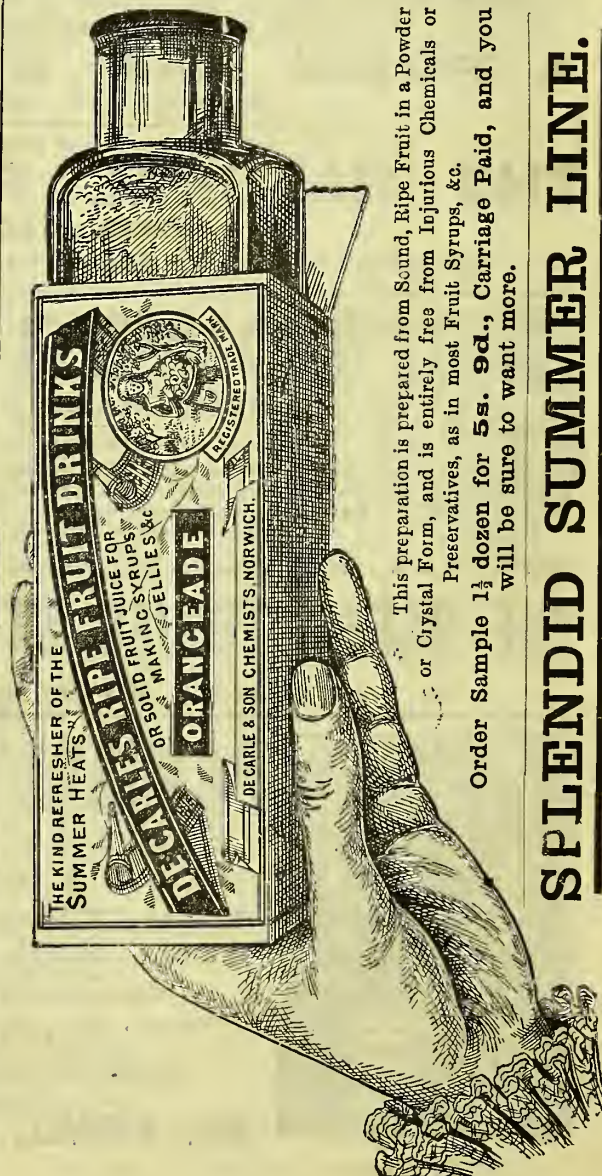
One Packet makes  $1\frac{1}{4}$  pints of  
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**RETAIL PRICE 5<sup>D</sup>.**

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Order Sample  $1\frac{1}{2}$  dozen for 5s. 9d., Carriage Paid, and you will be sure to want more.

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**Every Chemist**

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AS IT

never turns rancid;

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

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UNGT. LANOLINI is cheap.

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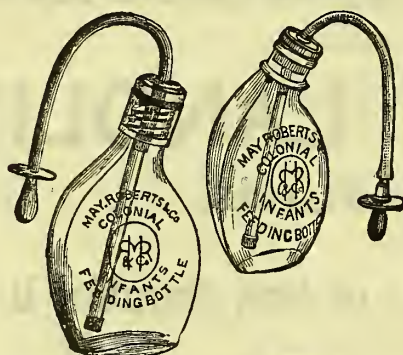


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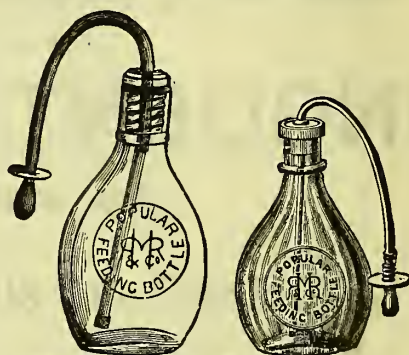
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## POPULAR



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If with White Glass Bottles, 2/ gross extra.

	Each in Card Box.	In Boxes of 1 Dozen.	Loose in Cask (free).
	Per Gross.	Per Gross.	Per Gross.
Green Glass, Wood Top, White Fittings	34/	28/	23/
Do. do. Black Fittings	37/	31/	26/
Do. Screw Glass, White Fittings	39/	33/	29/
Do. do. Black Fittings	42/	36/	32/

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## ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

## INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

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## CLASSIFIED LIST OF ALL ADVERTISERS

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## ADVERTISING SPECIALTIES

Lawton, J. W.  
Sears, F. W.

## AERID &amp; MINERALS

Apollinaris Co.  
Barnett & Foster  
Chemist's Aerated Water Association  
Killa & Son (Ruthin) [see Fletcher Fletcher & Stevenson]  
Joseph Co.  
Gerolstein  
Hassell & Co. Hay, W  
Idris & Co.  
Ingram & Royle  
Jewsbury & Brown  
Johanne Spring (Lim.)  
Mills & Co. (Bourne)  
Schacht, W., & Co.  
Schweppe, J., & Co.  
DITTO PLANT  
See SYPHONS and ESSENCES.  
Barnett & Foster  
Bratby & Hinchliffe (Lim.)  
Gueret Frère  
Tyler, Hayward, & Co.

## AGENCIES ABROAD

Australasian Drug Co.  
Fulton, Grimwade & Co. (Melbourne)  
Kempthorne, Prosser & Co.  
Lennon, B. G., & Co. [(N.Z.)]  
Levy, Jules  
Mardoch, John, & Co.  
Pasko, Allen & Co.  
Prosser, Taylor & Co.  
Roberts (Paris, &c.)  
Roos, Tompsett & Co. (Melbourne)  
Sharland & Co.  
Soul, W. H., & Co.

## ACETIC ACID

Fuerst Bros.  
Green, R. W., & Co.  
Morris & Gallard (Salts)

## ALKALOIDS

Howards & Sons (Ginehons)  
Smith, T. H., & Co.  
ALMANACKS  
Ford, Shapland & Co.  
Silverlock, H.  
Townsend, J.

## AMMONIA

May & Baker (Lim.)  
White, A., & Sons  
Woolley, Sons & Co.

## APPARATUS

Ollison, A.  
Orme, J., & Co. (Scientifics)  
Perken, Son & Raymont  
Poths, H., & Co.  
Wedgwood & Sons (Mortars)

## BAKING POWDER

Goodall, Backhouse &amp; Co.

## BANDAGES

Bailey, W. H., & Son  
Robinson & Sons  
Schutze, F., & Co.

## BATH GLOVES

Pattison, G.

## BEESWAX

Boehm, F.  
Bowdler, W. H., & Co.  
Taylor, A. J., & Co.

## BISMUTH PREP.

Hearon, Squire & Francis  
Hewlett & Sons  
Howards & Sons  
May & Baker (Lim.)  
Grimes & Co. Tyler, T., & Co.  
White, Alfred, & Sons

## BICARB. SODA

Brunner, Mond & Co. (Lim.)  
Howards & Sons  
Jacke, W.  
May & Baker (Lim.)

## BOOKS

Burroughs, Wellcome & Co. (Remington's Pharmacy)  
Hargreaves, Dr. M. J.  
Herschell, Dr. J. Muter, Dr. Watts' Dictionary (Logmans)

## BORAX

Howards & Sons  
Mack's Starcan  
Mear & Green

## BOTTLES

Aire & Calder Bottle Co. (Lim.)  
Barnett & Foster  
Barrett, R. H.  
Bratby & Hinchliffe (Lim.)  
Bush, H. W., & Co.  
Evans, Sons & Co.  
Gilbertson, H., & Sons  
Hearn, K. A., & Co.  
Isaacs & Co.  
Johnson & Jergensen  
Kilner Bros.  
Lynch, T., & Co. (Tollit)  
Maw, S., Son & Thompson  
Poths, H., & Co.  
Shirley, A. W.  
Thompson, Walters, Hole & Co. (Lim.)  
Toogood, W.  
"W" Brand Bottles"  
Youldon, E.

## BOXES

Anett & Co. (Cardboard)  
Evans, Sons & Co.  
Parmenter, I. W., & Co. (Lim.)  
Robinson & Sons

## BUNSEN BURNERS

Berend &amp; Co.

## BRUSHES

Evans, Sons & Co.  
Kent, G. B., & Son

## BUTTER COLLE, &amp;c.

Boulton, J., & Co. (Lim.)  
Hatrik & Co. (Lim.)  
Oldfield, Pattinson & Co.

## CALENDARS

Hildeheimer & Faulkner  
Fuerst Bros.

## CAMPHOR

Howards & Sons  
Keene & Ashwell (Homoeopathic)  
May & Baker (Lim.)  
Marrison, J., & Co.

## CAPSULES

Denoual, J. (Medicinal)  
Duncan, Flockhart & Co.  
Evans, Sons & Co.  
Hatrik & Co. (Lim.)  
Hooper, B., & Co.  
Mason, G. E., & Co.  
Richardson, John, & Co. (Leicester), Lim.  
Robertson, J., & Co.

## CSCRA SAGRADA

Duncan, Flockhart & Co.  
Evans, Sons & Co.  
Farron, G. E., & Co.  
Mason, G. E., & Co.

## CASTOR OIL

Allen & Hanbury (Fuerst Bros)  
Christy & Co. (Aromaticum)  
Green, K. W., & Co.

## CATALOGUE

Maw, S., Son & Thompson  
Newbery, F., & Son  
Sanger & Sons

## CHECK TILLS

Patent Voucher Check Till Co. (Lim.)

## CHEMICALS

Boehm, F.  
Boehringer, C. F., & Soehns  
Boulton, J., & Co. (Lim.)  
Bramwell, E., & Son  
Brunner, Mond & Co. (Lim.)  
Fletcher Fletcher & Stevenson  
Fuerst Bros.  
Goodall, Backhouse & Co.  
Green, R. W., & Co.  
Hill, A. S., & Son [Clarke]  
Hodgkinson, Treacher & Howards & Sons (Pharm.)  
Levermore, Aug., & Co.  
Lothhouse & Saltmer  
Lorenz, H.  
May & Baker (Lim.)  
Morris & Gallard Moss & Co.  
Reade Bros. & Co.  
Smith, T. H., & Co.  
Tyrer, T., & Co.  
Washington Chemical Co.  
White, A., & Sons  
Zimmermann, A. & M.

## CHEST PROTECTORS

Hockin, Wilson & Co.  
Liverpool Patent Lint Co.  
Lynch & Co.  
Maw, S., Son & Thompson  
Newbery, F., & Son  
Pattison, G.  
Thompson, Walters, Hole & Co.

## CHLORODYNE

Davenport (Browne's)  
Towie, A. P., & Son

## CHLORIDE OF LIME

Government Sanitary Co.  
National Chemical Co.

## SITRIC ACID

Hassell &amp; Co. (Phospho)



**CHLOROFORM, &c.**

Duncan, Flockhart & Co.  
Greiff, R. W., & Co.  
Macfarlan, J. F., & Son  
Salaman & Co. (Lim.)  
Smith, T. H., & Co.  
Wright, Layman & Umney  
Zimmermann, A. & H.

**COCAINE-HYDRO.**

Howards & Sons

**COCA WINE**

Armbricht, Nelson & Co.  
French Hygienic Soc.  
Stephen Smith & Co. (Hall's)

**COCOA & CHOCOLATE**

Cadbury Bros. (Christy & Co.  
Bowdies & Co.

**COD-LIVER OIL**

Allen & Hanburys  
Burroughs, Wellcome & Co.  
Evans, Sons & Co.  
Greiff, R. W., & Co.  
Hickin, Wilson & Co.  
Lofthous & Saltmer  
Smith, T. J.  
Woolley, Sons & Co.

**COFFEES**

Symington, T., & Co. (Coffee)  
(Essence)

**COLDSOLUBLE TUBES**

Bates & Co.

**COMP. MEDICINES**

Allen & Hanburys  
Blyton, Astley & Co.  
Burroughs, Wellcome & Co.  
Fuerst Bros.  
Hooper, B., & Co. | Leo & Co.  
Lloyd, T., & Co.  
Richardson, J., & Co.  
Wyleys (Lim.)

**CONCENT. LIQS.**

Evans, Sons & Co.  
Fletcher, Fletcher & Stevenson  
Lloyd, T. H., & Co.

**CONFECTIONERY**

Blyton, Astley & Co.  
Gibson, R., & Sons  
Gueret, T., & Co.  
Kerfoot, T. | Pascall, J.  
Lynch, T., & Co.  
Southwell, C., & Co.  
Warwick Brothers

**CORN CURES**

Patison, G.  
Solport Bros.

**COTTON WOOL**

Haynes, G., & Co. (Absorbent)  
Robinson & Sons (Absorbent)  
Sanger, J., & Sons  
Seabury & Johnson (Septics)  
Sedox, Absorbents, and Anti-

**CRUSH LENSES**

Graham, W., & Co.  
Lamford, & Co.

**DENTIFRICES**

Baylor & Sons (Lim.)  
(Kalonid)  
Beecham, T.  
Bronley, H., & Co.  
Jewsbury & Brown  
Lakeman, J. J.  
Quelch, H. A.  
Stevens, P. O.  
Sutton, O., & Co.  
Thompson & Capper  
Warrick Bros. | Wilson, A.  
Woods, W. (Aroca Nut)

**DISINFECTANTS**

Calvert, F. C., and Co.  
Ellison, H.  
Fletcher Bros. & Co.  
Government Sanitary Co.  
Grindley & Co. (Lim.)  
Jeyes' Fluid  
Mason, C. E., & Co.  
National Chemical Co.  
Sanitas Co.  
Seabury & Johnson

**DOG MEDICINES**

Spratts Patent (Lim.)

**DRUGGISTS' SUN.**

Ayrton & Saunders  
Bailey, M., & Co.  
Barclay & Sons (Limited)  
Beauclerk Co.  
Bush, H. W., & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co. (Savara)  
Fortham, W. R., & Sons (Lim.)  
Gibson, R., & Sons  
Hickin Wilson & Co.  
Irlis & Co.  
Kay Bros. (Lim.)  
Lynch & Co.  
Maw, S., Son & Thompson  
May, Roberts & Co.  
Newberry, F., & Sons  
Quelch, H. C.  
Sanger & Sons  
Sanitas & Co.  
Taylor, A. J., & Co.  
Thompson, Walters, Hols & Co. (Lim.)  
Tidman & Son  
Toogood, W.  
Wood, Vincent Young, J.

**DRUG GRINDERS**

Jordan & Co.

**DRUG MILLS**

Burroughs, Wellcome & Co.

**DRUMS**

Barker, F.

**EAU DE COLOGNE**

Farina, J. M.  
Hickin, Wilson & Co. (Farina)  
Martin, Maria (Nun)  
Oscar, Moenich & Co.

**ELECTRIC APPAR.**

Darton, F., & Co.  
Gent & Co.  
Orme & Co.

**EMBOCATION**

Burn, H.  
Day & Sons  
Elliman, Sons & Co.

**ENEMAS**

Evans, Sons & Co.  
Sanger & Son  
Scriven, G.

**ENGRAVERS**

Barker, W., & Son  
Corsan, J. K.

**ESSENCES**

Beckett, W. | Barger, F.  
Boehm, F.  
Boulton, J., & Co.  
Brady & Hinchliffe (Lim.)  
Burgoyne, Burdidge & Co.  
Bush, W. J., & Co.  
Cummock, J.  
De Carle & Son  
Goodall, Backhouse & Co.  
Hay, W.  
Irlis & Co.  
May & Baker (Lim.)  
Newball & Mason  
Oldfield, Pattinson & Co.  
Stevenson & Howell  
Tyrer, P. (Anchovies)  
Tyrer, T., & Co.  
Woolley, Sons & Co.

**ESSENTIAL OILS**

Berger, F.  
Boehm, F.  
Bush, W. J., & Co.  
Clay, Dod, & Co.  
Cooking & Co. (Japan Pepper-  
mint)  
Cummock, J.  
Dodge & Gloett  
Evans, Sons & Co.  
Haller, G., & Co.  
Hodgkinson, Trassher &  
Clarke  
May & Baker (Lim.)  
Poppelreuter, W.  
Robert Freres  
Sozio & Andrioli  
Schlesinger, L.  
Stevens & Howell  
Symes & Co.  
Tombarel Freres  
Treat, R. C.  
Vogt, G., & Co.  
Warwick Bros.  
Wright, Layman & Umney

**ETHER**

Duncan, Flockhart & Co.  
Howards & Sons  
May & Baker (Lim.)  
Robbins, J., & Co.  
Tyrer, T., & Co.  
White, A., & Sons  
Woolley, Sons & Co.  
Wright, Layman & Umney

**EUCALYPTUS**

Dwyane H. P. Co.  
Drysdale, J. W., & Co.  
Evans, Lescher & Webb  
Fletcher, Fletcher & Stevenson  
Tasmanian Eucalyptus Oil  
Co.  
son  
Vogt G., & Co.

**EXTRACTS, FLUID**

Allen & Hanburys  
Barber, G., & Co.  
Burgoyne, Burdidge & Co.  
Duncan, Sons & Co.  
Fletcher, Fletcher & Stevenson  
Heaton, Squire & Francis  
Hooper, B., & Co.  
Lloyd, T., Howard & Co.  
Mose & Co.  
Potter & Clarke  
Vogt, G., & Co.  
Wright, Layman & Umney

**EXTRACT MEAT**

Brand & Co.  
Bush's Liquid Beef  
Demeyer's Peptons and Ex-  
tract of Meat Co. (Lim.)  
Irlis & Co. | Liebig Co.  
Liquor Carnis Co. (Lim.)  
Mason, G., & Co. (Lim.)  
Wright, J. S., & Co.

**FEEDING BOTTLES**

Burroughs, Wellcome & Co.  
(Thermo Safe)  
Evans, Sons & Co.  
Hearn, E. A., & Co.  
Hickin, Wilson & Co.  
Kilner Bros.  
Lynch & Co.  
Marriott, E., & Co.  
May, Roberts & Co.  
Maw, S., Son & Thompson  
Thompson, Walters, Hols & Co. (Lim.)  
Toogood, W.

**FILTERING**

Berkefeld Filter Co.

**FISHES**

Fortham, W. R., & Sons (Ld.)

**FLESH GLOVES**

Patison, G.

**FOOD (Infants & Invalids)**

Allen & Hanburys  
Barker's Food  
Brand & Co.  
Evans, Sons & Co.  
Goodall, Backhouse & Co.  
Heaton, Squire & Francis  
Liebig Co.  
Liquor Carnis Co. (Lim.)  
Nestlé, H.  
Pure Beef Co.  
Spiking & Co.

**FLY PAPERS**

Tunbridge & Wright  
Wilson, S.

**FORMULA**

Brooks, T.

**FRUIT JUICES**

De Carle & Son

**GINGER ALE**

Hay, W. (Essence)  
Mills, A. M., & Co.

**GLYCERINE**

Blyton Astley & Co. (Pastilles)  
Boehm, F. | Fink & Co.  
Fuerst Bros.  
Greiff, R. W., & Co.  
Lynch & Co.  
Price's Candle Co.  
Taylor, A. J., & Co.

**GRANULAR PREP.**

Bishop, A., & Sons  
Evans, Sons & Co.  
Heaton, Squire & Francis  
Kerfoot, P.  
Wright, Layman & Umney

**GUM**

Pink & Co. (Arabic, &c.)  
Greiff, R. W., & Co.  
Levermore, Aug., & Co.  
Taylor, A. J., & Co.

**HAIR PREP.**

Anglo-American Drug Co.  
(Lim.)  
Chesbrough Mngt. Co.  
Edwards & Co.  
Truett, H. P. (Lim.)

**HERB BEER BITS**

Adams, B.  
Newball & Mason  
Oldfield, Pattinson & Co.  
Payne & Co.  
Potter & Clarke

**HERBALISTS**

May & Baker (Lim.)  
Potter & Clarke

**HOMOEOPATHIC**

Epps, J., & Co.  
Kane & Ashwell  
Leath & Ross  
Thompson & Capper  
Watson & Wates

**HOSPITALS**

London Homoeopathia

**HYPOPHOSPHITES**

Duncan, Flockhart & Co.  
Fellows  
Fletcher, Fletcher & Co.  
Symes & Co.  
Tyrer, Thomas, & Co.

**INHALERS**

Burroughs, Wellcome & Co.  
Hickin, Wilson & Co.  
Lynch & Co.  
Maw, S., Son, & Thompson  
Spirone, Co. The  
Toogood, W.

**INK [SEE MARKING INKS]**

Bewley & Draper

**INSECTICIDES**

Keating, T.  
Maw, S., Son & Thompson  
Steiner & Co.

**INSURANCE**

London and Lancashire Fire  
Insurance Co.

**KETCHUP**

Tyrer, P.

**LANOLINE**

Burroughs, Wellcome & Co.

**LARD**

Ewen, J., & Sons

**LIME JUICE**

Irlis & Co.

**LINT**

Haynes, G., & Co.  
Liverpool Lint Co.

**LIQUORICE**

"Solazzi"

**LITHIA**

Fuerst Bros.

**LOZENGES**

Allen & Hanburys  
Blyton, Astley & Co.  
Bishop, A., & Sons (Manfra)  
Hill & Son  
Kerfoot, T. | Pascall, J.  
Raines & Co.  
Warwick Bros.

**MACHINERY**

Bennett, Sons, & Shears  
Burroughs, Wellcome & Co.  
Holtroyd, J., & Co. (Lim.)  
Leete, Edwards & Norman, Ld.  
Melin, C. | Ohlson, A.  
Pontifex & Wood (Lim.)  
Werner & Pfeiderer (Knead-  
ing and Sifting)

**MAGNESIA**

Bush, W., Son & Co.  
Evans, Sons & Co.  
Greiff, R. W., & Co.  
Henry, T. W. & Co. (Calined)  
Hill & Son  
Kerfoot, T. (Clrats)  
Washington Chemical Co.

**MALT EXTRACT, &c.**

Allen & Hanburys  
Burroughs, Wellcome & Co.  
(Kepler's)  
Drusdale & Co.  
Heaton, Squire & Francis  
Raines & Co.  
Reade Bros. & Co. (Biscuits)  
Richardson, John, & Co. (Leis-  
ter), Lim.  
Wyleys & Co.

**MANICURE PREP.**

Dr. Paul's

**MARFING INKS**

Barber, G., & Co. (Crim-  
son)  
Bond, John (Crystal Palace)  
(Ink and Pencils)  
Ferry & Co. (Pencil)

**MEDICINE CHSTS**

Burroughs, Wellcome & Co.  
Day, Son & Hewitt (Veterinary)  
Day & Sons (Veterinary)

**MENTHOL**

A 1 Menthol Depot, A. W.  
Shirley, Proprietor.  
Cooking & Co.  
Evans, Sons & Co.  
Hickin, Wilson & Co.  
Seabury & Johnson  
Thompson, Walters, Hols &  
Co. (Lim.)  
Tyrer, P.

**MERCURIALS**

Fuerst Brothers  
Howards & Sons  
May & Baker (Lim.)  
Tyrer, Thomas, & Co.

**METH. SPIRITS, &c.**

Moord & Son  
Burroughs, J.  
Harvey, J. J., & W., & Co.  
Jones & Co.  
Phillips, G., & Co.  
Smith, S., & Co.  
Warren, A., & J.

**METHYLENE**

Robbins, J., & Co.

**MICROSCOPES**

Darton, F., & Co.  
Newsholme, G. T. W. (Slides)  
Perken, Son & Mayman

**MILK**

Nestlé, H. (Condensed)

**MIXING MCHRY**

caraner, W.  
Werner & Pfeiderer

**MORPHIA**

Macfarlan, J. F., & Co.  
Smith, T. H., & Co.

**OILS, PAINTS, &c.**

Fox, W., & Sons

**OINTMENT BASES**

Burroughs, Wellcome & Co.  
Chesbrough (Vaseline)  
Grindley & Co. (Petroleum  
Jelly)

**OPTICIANS**

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A HIGH-CLASS MEDICATED WINE AT A REASONABLE PRICE

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"The Lancet," April 9th, 1892.

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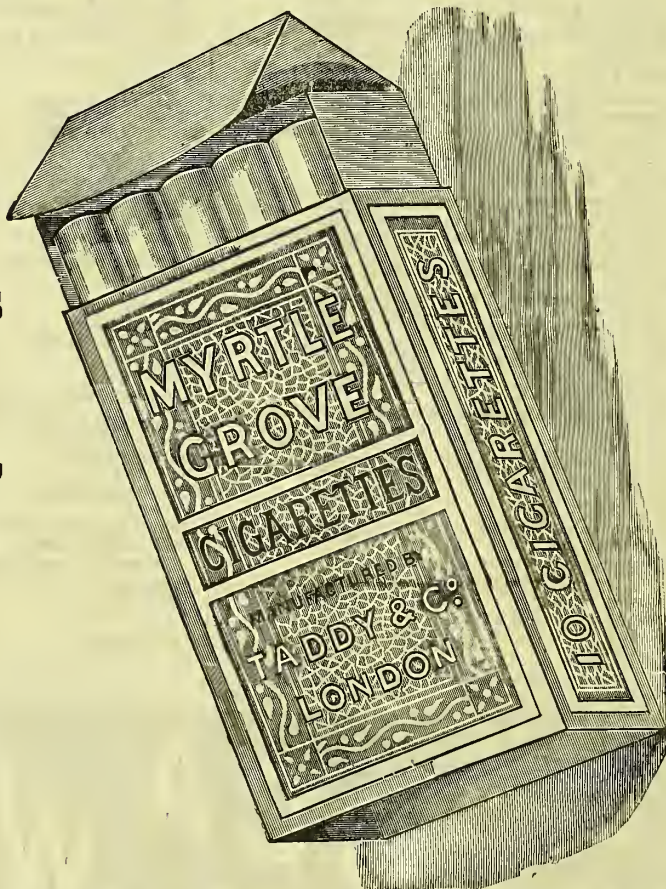
This is an excellent Wine, with an alcoholic strength equal to good port, possessing a similar flavour and bouquet, but associated with it also is the peculiar though pleasant aroma of the fresh Coca leaf. Ether when shaken with it also is the peculiar though pleasant residue on evaporation which with hydrochloric acid gave characteristic Crystals of Cocaine hydrochlorate; they were further identified by the numbing effect produced by the Crystals when rubbed on the tip of the tongue. Analysis gave the following data: Alcohol, 15 per cent. by weight, 18.50 per cent. by volume; total solid matter, 18.73 per cent. (sugar and coca principles); mineral matter, 0.33 per cent. The restorative and invigorating properties of the Coca leaf are now well known, and it may be very conveniently and palatably administered in the form of an agreeable Wine such as that under examination, a wineglassful of which is stated to contain one drachm of the soluble active ingredients of the leaves.

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A Liquid Preparation of the CHOICEST BEEF, containing the Nutritious Albuminous Principles in an unaltered and soluble form.

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LONDON: SATURDAY, APRIL 30, 1892.

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ZYMIN (EXTRACTUM PANCREATIS), FAIRCHILD, is a *dry powder*, containing in the most active and concentrated form all the Enzymes of the Pancreas, viz.: TRYPSIN, AMYLOPSIN, STEAP SIN, and the RENNET FERMENT.

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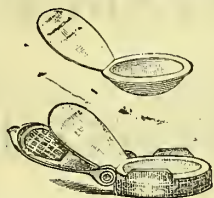
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## Summary.

A DAIRYMAN has been fined at Greenwich for adding boric acid to milk.

WE give another useful collection of formulae from a retired druggist's recipe-book.

A new edition of the Japanese Pharmacopœia has been published in the vernacular and in Latin.

DR. CARL SCHORLEMMER, the well-known chemistry professor of Owens College, Manchester, died this week.

WE give particulars in an Editorial note of the new Italian Pharmacopœia which is the first authoritative Pharmacopœia for that country.

MR. BEVAN, of Cross & Bevan, has been appointed analyst for Middlesex, the emoluments of which office amount to about 1,000l. a year.

THE number of festivities in connection with the drug-trade which we report in our News section seems to indicate a healthy state of trade at present.

THE Association of Owners of Proprietary Medicines write us intimating their intention to contest the action of the Pharmaceutical Society against vendors wherever practicable.

THE executive of the North British Branch met on Wednesday, re-electing Mr. Ewing as chairman, and discussing the arrangements for the Pharmaceutical Conference meeting next month.

OUR Irish News contains the report of the melancholy suicide of Mr. Harry Napier Draper, one of the best known and most respected of Irish pharmacists. Mr. Draper's mind had evidently given way.

IN view of the present high prices of henbane and its extract the account of a visit to a Hitchin drug-farm, which we publish, will be read with interest. The crop of henbane this year is below half the average.

IN response to many complaints we have had the debentures and other documents issued by the Half Price Closed Letter Company (Limited) carefully examined, and we publish an opinion in an Editorial note.

QUIETNESS reigns in commercial circles, and business is somewhat dull. Higher prices were obtained at the cinchona sales on Tuesday, and owing to the shortness of the present season's crop otto of rose has advanced.

ON Wednesday morning last a disastrous fire broke out at the premises of Sir James Haslett, chemist and drysalter, Belfast, and before it could be extinguished damage was done to the extent of 50,000l. All the property destroyed was insured, however.

THE chemist's assistant at Northampton indicted for having obtained money by false pretences by selling as Beecham's other pills in Beecham's boxes which he had obtained from chemists, has been sentenced to ten months' imprisonment with hard labour.

THE Judge of the Selby County Court, while giving judgment for two penalties of 5l. each against an unregistered person proved to have sold poison, has refused to order a further penalty of 5l. sued for by the Pharmaceutical Society from the same defendant for keeping open shop for the sale of poison. A case for a superior Court has been granted.

## PUBLISHER'S NOTICE.

FIRMS who wish to produce a good effect in our Summer Number (July 30) should, without delay, set about preparing a handsome circular for insertion therein. We give the best distribution of druggists' circulars which can possibly be obtained, and we do it at a fraction of the cost of postage. This is the way to advertise profitably. Particulars will be supplied by the Publisher.

Multiply this by Eleven Thousand.

A South American firm (recent subscribers) writing to us on May 9, remark incidentally that last year (before they subscribed) we sent them our Summer and Winter issues, from the advertisements in which they spent 2,000l.

They Know its Value There.

The head of a large firm in Barbadoes writes: "Some time since I was glad to have the pleasure of seeing your representative, who told me he was having a pleasant and profitable trip, and finding everyone well pleased with your paper. I myself have reason to esteem THE CHEMIST AND DRUGGIST very highly indeed, as, living so far from headquarters, I am indebted to it for an incalculable fund of information of a very valuable nature."

## Gazette.

### PARTNERSHIP DISSOLVED.

Martin, C. J., and Martin, S. W., under the style of J. Martin & Sons, Chesterfield, veterinary surgeons.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDER.

Hyatt, William Herbert, Harlington, chemical and scientific engineer.

#### ADJUDICATIONS.

Burgess, Edwin, late High Holborn, W.C., present residence unknown, patent-medicine vendor.

Pew, Edward, and Roberts, Frederick Charles, trading as Pew, Roberts & Co., Egham, vinegar-brewers.



## English News.

### Sporting News.

The employés of Mr. Wand, chemist, Leicester, had a foot-race on the evening of June 21, on the Belgrave Grounds. A one-mile handicap was contested, and there were thirteen entries. Smith and Taylor were the leaders at the end of the first lap, but retired before the post was reached a second time. Turner was by this time taking the lead, and he retained that position to the end, winning by 30 yards. Time, 5 minutes 10 seconds. Knight took second place. Some amusement was occasioned by the third and fourth men, who, when within 100 yards from home, having evidently forgotten that there was a third prize, were sauntering along conversing, when an on-looker reminded them of their chances, and a desperate struggle for the remaining distance ensued, Jones coming in before Spreckley by a foot.

A match was played at Masterman's cricket-grounds, Harringay Park, on June 18, between Barron, Harveys & Co.'s C.C. and Smiths' C.C. (Borough). The Giltspur Street men scored 82 for 7 wickets, and then declared their innings closed. Stuchbury made 54 not out. Smiths' C.C. could only reach 60, of which Gunster made 26.

The Midland Counties Chemists' Association C.C. played a match on Wednesday with the Langley C.C. The chemists made a total of 108, thanks to the smart play of Baynton, Holmes, and Bryan, who made 29, 35, and 27 respectively. The Langley men had forty-five minutes to play, during which time 5 wickets fell for 49 runs.

### The Analyst for Middlesex.

At last week's meeting of the Middlesex County Council, held in the theatre of the Institution of Civil Engineers, Great George Street, Westminster—Mr. R. D. M. Littler, Q.C., C.B., the chairman, presiding—the question of appointing an analyst for the county at fees amounting in the aggregate to about 1,000*l.* per annum, came up for consideration. The General Purposes Committee, who had dealt with the subject, brought up a report in which they stated that the following twenty gentlemen had applied for the post:—E. J. Bevan, C. E. Cassall, E. G. Clayton, F. H. P. Coste, C. H. Cribb, R. A. Cripps, A. Dupré, B. Dyer, G. H. Gemmell, A. I. de Hailes, H. W. Hake, R. H. Harland, J. P. Laws, W. F. Lowe, J. R. Paterson, A. E. Pike, T. A. Pooley, A. G. Salamon, A. D. Sutherland, and F. L. Teed. They further reported that, after having examined the qualifications and testimonials of the candidates, they were of the opinion that Alfred Gordon Salamon, A.R.S.M., F.I.C., F.C.S., A. D. Sutherland, F.I.C., F.C.S., Cecil H. Cribb, B.Sc. (Lond.), F.C.S., F.I.C., M.S.P.A., and Edward John Bevan, F.C.S., were, in the order given, the best men.

The Chairman said he had taken a great deal of interest in this matter as a practical chemist. He had taken care to be present at the meetings of the committee, and was certainly of the opinion that the first-named gentleman was the best man, although he did not mean to say anything whatever against the others. As a member of the Council, and not as chairman, he moved that Mr. Salamon be appointed.

Each of the other three gentlemen was nominated, and upon the first voting the figures were—

Sutherland	..	..	..	..	..	17
Bevan	..	..	..	..	..	15
Salamon	..	..	..	..	..	14
Cribb	..	..	..	..	..	9

Upon a second vote Mr. Cribb's name was omitted, and the figures were—

Bevan	..	..	..	..	..	19
Sutherland	..	..	..	..	..	18
Salamon	..	..	..	..	..	17

Mr. Salamon's name was then omitted, and the voting was—

Bevan	..	..	..	..	..	24
Sutherland	..	..	..	..	..	23

The Chairman declared Mr. Bevan, of 1 Fenchurch Avenue, E.C., to be the successful candidate, and he was subsequently lected by a unanimous vote.

### The Election.—The Food and Drugs Act.

Captain Penton, the Unionist candidate for Central Finsbury, speaking to a crowded meeting of electors at the Amwell Street schools on Saturday, said a gentleman had addressed a letter to him, saying that hundreds of prosecutions daily took place under the Sale of Food and Drugs Act, and yet scarcely two decisions were in unison, and the writer wished to know whether he (the speaker) would support a measure in the new Parliament for the consolidation, interpretation, and amendment of the law, with the object of securing good and wholesome food and drugs for the people, and also for the protection and fair treatment of the traders; also, for the purpose of defining what mixtures are legal and what are not. (Hear, hear.) He (the candidate) replied that, if there was any doubt about the interpretation of the law—if the traders were uncertain with regard to what was lawful and what otherwise—he would do his very best to get it simplified and rectified. (Applause.) He considered the Food and Drugs Act a very important one, and there should be full justice between the seller and the consumer. (Applause.)

### Dalston Doctors Disputing.

At the North London Police Court on Saturday, before Mr. Haden Corser, Dr. J. M. Gleeson, of Lansdowne Road, Dalston, was summoned by Dr. O'Regan, of 43 Broadway, London Fields, for wilfully and wantonly disturbing him by ringing his street-door bell without lawful excuse. The defendant was also summoned for using threats towards Dr. J. E. Slaughter, at the same time and place. The defendant was at one time assistant to Dr. O'Regan, and a previous dispute between them had to be settled in this court, when defendant was bound over to keep the peace. He had left Dr. O'Regan's employ. Dr. Slaughter said he was awakened at 1 A.M. on the morning of the 18th by somebody ringing the bell, and speaking up the tube that he was wanted for a patient. Witness went down and saw the defendant, who forced his way into the passage, saying that if he (witness) was not a friend to him he (defendant) would ruin him. A solicitor, who represented the defendant, said it was a most frivolous accusation. His client had not threatened Dr. Slaughter. The fact was Dr. Gleeson had been enjoying himself, and had brought some fish and potatoes to Dr. Slaughter's house for the two to take supper together. (Laughter.) The defendant said nothing about a patient; but said, "Come down and have some supper, old man." (Laughter.) Dr. Slaughter would admit that he had previously been on good terms with the defendant. Mr. Haden Corser said he did not think there was anything in the threats, and would dismiss the summons on that account; but defendant had no right to go to Dr. O'Regan's house, and ring the bell as described. For this he would have to pay a fine of 20*s.*, and 23*s.* costs. The money was paid.

### Sudden Death.

Mr. Joseph Wallis Goddard, manufacturing chemist, Leicester, was staying at Ramsey with his wife and family. A brother-in-law, named Richard Burton, who was a book-keeper in his office at Leicester, had come to spend a short time with him, and after having been out for a row with Mr. Goddard and his daughter, the two gentlemen were walking on the pier. Mr. Burton had been hurrying somewhat so as to get in time for the Douglas boat, on which they were about to make a trip, when, the whistle being blown, Mr. Burton started to run again, but immediately fell and, as was believed, died instantaneously from heart-disease.

### Surrey v. Middlesex.

The South of London is jealous for its reputation as the champion price-cutter. Some North London men gave specimens of the prowess of their neighbours in this respect last week, so a Peckham chemist now writes:—"Talk about cutting in the North of London, what do you think of this, in Rye Lane? Loofahs at 1*l.* each, receipted bill included, which I enclose." It is a regular invoice with a picture on the top, a price-list at the back, and a cashier's red stamp at the foot marked, "Paid, with thanks." This reminds us of one of Leech's pictures representing the polite grocer: "A 'a'p'ny candle, and be quick, 'cos mother wants her tea," says a small client, whose patters enable her to see over the



counter. "Yes, miss, certainly," replies the shopkeeper. "Can we send it anywhere for you?"

#### Mr. Sargent's Letters.

Mr. Sargent's experience before the Dover magistrates and at the Maldstone Assizes does not seem to have checked his determination to straighten up all his fellow-pharmacists. Nor has his legal education made him more explicit in his statements than formerly. The following is a letter he sent the other day to Mr. J. H. Wilson, of Harrogate. His address label was attached to the top corner.

*Violations of the Pharmacy Act, 1863, in the Plurality of Shops by one Person.*

June 24, '92.

J. H. Wilson, Harrogate, and 45 Gifford Street, N.

DEAR SIR,—This subject has passed from my Committee to the Public Prosecutor, Treasury, Whitehall, S.W., with ample powers of procedure against the Society, and public bodies in any delay, protection, or connivance with especial reference to Harrogate and yourself.

Yours truly,

Mr. J. H. Wilson.

G. W. SARGENT.

#### The Assistant and the Boy.

At the Horncastle Petty Sessions, on July 13, Frederick Gutteridge, chemist's assistant, in the employ of Mr. H. Carlton, chemist and druggist, Horncastle, was summoned for assaulting John Crowson, an apprentice in Mr. Carlton's employ. The evidence given showed that Gutteridge had turned Crowson out of the shop after a scuffle for creating a noise. The Magistrates dismissed the case, each side to pay their own costs.

#### Festivities.

The celebration waygoose of the employes of Mr. James Townsend, medical-label printer, Exeter, took place on June 18 at Bournemouth. On April 5 last the employes presented Mr. W. Townsend with a gold watch and an illuminated scroll on the attestation of his majority, on which occasion he invited them to spend a day at Bournemouth on June 18, and this was the outcome. The whole of the expenses were borne by Mr. J. Townsend. The party travelled to Bournemouth by special train, arriving at 9.45. The morning was spent in various ways, but all assembled at the Hotel Mont Dore for dinner at 1 o'clock, where they were welcomed by Mr. and Mrs. Townsend and a number of friends. Tables were laid for 225. The party was photographed before dinner, though it might have been easier to "look pleasant" when that function had been concluded. A few appropriate toasts and songs followed, and the sea and the fine woods were again resorted to. The party left Bournemouth at 8.30, and reached Exeter at 11.35.

The employes of Henry Marks & Sons (Limited), sponge-dealers, 45 Houndsditch, E., held their annual dinner on Saturday, June 25, at the Beehive Hotel, Lambourne End, Essex, where a most enjoyable day was spent.

The employes of E. Steiner & Co., vermin-paste and insect powder works at Henry Street, Limehouse, had their annual outing on Saturday last, June 25, to Bush Hall, Buttsbury, near Billericay, Essex, where they spent a most enjoyable day at the principal's residence, where they were entertained, and a drive through the country for three hours was well appreciated before dining.

A goodly number of past and present assistants of the firm of Corbyn, Stacey & Co. assembled from various places of business in London and the country to dinner at the Guildhall Tavern, King Street, Cheapside, on Thursday, June 23. The chair was taken by the head of the firm, Mr. S. L. Stacey, J.P., and a most enjoyable evening, enlivened with songs and a recitation, was spent. Mr. A. W. Waring proposed "Success to the Firm," which was received with much enthusiasm, and the Chairman and Messrs. G. and W. Stacey suitably responded. The toast of "The Past and Present Assistants," given from the Chair, was acknowledged by Mr. Jewell (London), Mr. Marlar (Halstead), and Mr. Rogers (of 86 New Bond Street, London).

The annual outing of the employes of Messrs. C. J. Hewlett & Son took place last Saturday, when a large party proceeded to Brighton by the 8.30 train. The morning was spent in visiting some of the principal places in the town, and dinner was served at the Gloucester Hotel. The toast

of "Success and Prosperity to the Firm" was proposed by Mr. F. B. Symons, one of the travellers, and responded to by the manager, Mr. E. J. Tucker. Special reference was made to the liberality of the firm in covering the expenses of these annual excursions, and to the progress of the new premises adjoining the establishment in Charlotte Street, E.C. In the afternoon carriage-drives were arranged to Shereham, &c., and, in spite of somewhat unsettled weather, a most enjoyable day was spent, London being reached again about 10.30 p.m.

We are asked to mention that the N. and N.W. Chemists' Association of London have arranged a river excursion on July 14. The party will proceed by train in specially reserved carriages from Paddington about 10 A.M. to Taplow, and thence by steam launch to Henley and back, returning from Taplow to Paddington. Luncheon and tea will be provided on board—wines, &c., excepted, which can be obtained on the boat. Tickets (inclusive of all expenses), 14s. 6d. each, will be supplied by Mr. W. J. Pinchen, 229 High Road, Kilburn; by Mr. Hick, 2 Queen's Terrace, St. John's Wood; or by Mr. J. Holding, 169 Hemington Road, Barnsbury. The Committee will be glad to be joined by chemists not members of the Association, with ladies.

On June 23 the chemists and druggists of Swansea met at the Royal Hotel for the purpose of entertaining at a complimentary banquet Mr. N. M. Grose, on the occasion of his being elected on the Council of the Pharmaceutical Society of Great Britain as the only representative from Wales. The chair was occupied by Mr. George, of Oxford Street. It is expected that, as an outcome of the proceedings, meetings will be regularly held, at which business questions will be discussed. Speeches and songs occupied the evening.

The employes of Messrs. Boot's Pure Drug Company, Island Street, Nottingham, held their fifth annual outing on Saturday, June 25. The place selected was Hazelford Ferry, a lovely spot on the banks of the Trent. The party numbered more than on any previous occasion, and included besides the chemists, clerks, and draymen, artists, printers, joiners, painters, plumbers, and polishers, all employed at the firm's factory. The Midland Railway Company provided carriages through to Bleasby. From there the Ferry was reached by a walk, and a substantial dinner was served at the Star and Garter. During the afternoon sports were arranged and dancing in the evening.

#### Tendering for Disinfectants.

The Bermondsey Vestry have accepted the tender of Messrs. Adams, Webster & Co. for the supply of disinfectants. The only other firm tendering was that of Messrs. Adcock, Easton & Co.

#### Robbing a Chemist.

At the Greenwich Police Court, on Friday, before Mr. Marsham, Godfrey Craythorne Hall, 39, of 26 Foxberry Road, Brockley, was charged, on remand, with stealing three coats and two pairs of trousers, value 10l., the property of Mr. George Hagemann, chemist, of the same address. The prisoner, who admitted that he had taken the things, begged for forgiveness, and promised to sign the pledge, it being stated that he had of late given way to drink. He said he had served in the army and had a sunstroke in India. Mr. Marsham sentenced the prisoner to three months' hard labour, and told the prosecutor that the pawnbroker, with whom the articles were pledged for 30s., had rendered every assistance, and he thought Hagemann should pay half of that amount, the pawnbroker to lose the remainder. Prosecutor agreed to adopt this course.

#### Boric Acid in Milk—A Test Case.

At the Greenwich Police Court on Tuesday, Isaac Thorne, dairyman, of 6 Beadnell Road, Forest Hill, was summoned by the Lewisham District Board of Works for selling milk not of the nature, substance and quality demanded. Mr. Laidman, solicitor, prosecuted for the Board, and said this was a test case. The Board's inspector asked for milk, and received milk and boric acid. There was no doubt this admixture was injurious to health, and he could call medical evidence to that effect if necessary. The practice of adding boric acid was increasing largely in the district, and the Board



desired to put a stop to it. The defendant said he never adulterated his milk with anything, and had never done so. Mr. Shaw, inspector, said he bought from the defendant's wife a pint of milk for 2d., telling her it was for analysis. He took a third of the sample to the analyst, who certified that it contained "a considerable amount of boric acid, but in other respects is genuine milk." In reply to the Magistrate witness said he had heard that boric acid was used for preserving milk and butter. Defendant said he knew nothing of boric acid. Dr. Samuel Rideal, analyst to the Board, said he analysed the sample, and the certificate produced was his. Boric acid was put into milk to preserve it and to keep it for some time from getting sour. There was no necessity for the addition of boric acid, which would preserve milk for a week or fortnight if sufficient acid was put in. The milk would undergo a change, but the acid would conceal the change. Of course the milk was not of the nature and quality of pure milk. Boric acid was a drug, and was not food, and was used by medical men as a drug in special cases. It had an injurious effect upon the kidneys, and created albumen in the urine, and brought on diarrhoea in dogs. There was abundant medical evidence to show that it was very injurious to infants. The smallest quantity was injurious. There was a large quantity in this milk, but he could not swear to the exact quantity. Mr. Kennedy fined the defendant 3l. and 2s. costs.

#### The Islington Medical Office ship.

On Friday night, when the Islington Vestry met specially to consider whether they would rescind their by-law (50) which debar any vestryman from seeking paid office under the Vestry within six months of his being a vestryman, a motion was made to suspend this by-law to enable Dr. Wynn Westcott to become a candidate for the office rendered vacant by the death of Dr. Tidy. After a good deal of acrimonious discussion, the motion was adopted by 50 to 23. There were cries of "Jobbery!" from the defeated side, to which the victors replied, "Expediency!" and there is no doubt that, unless an exceptionally good man comes along, Dr. Wynn Westcott will be medical officer of Islington.

#### Death from an Overdose of Chloral.

George Martin, a druggist's traveller, 40 years of age, was found dead in bed at 15 Catherine Street, Strand, a few days ago. At the inquest on Wednesday Dr. George Hamilton said that when he was called to deceased life was extinct. In a glass which stood on the dressing-table there were about two tablespoonfuls of a clear fluid, which on analysis proved to be chloral. There were also two empty bottles which had contained a similar fluid. The stomach contained chloral. Amongst the deceased's papers were several prescriptions for sleeping-draughts. There were indications that the deceased drank heavily. His heart was affected, and he would be likely to be easily affected by the chloral. The jury returned a verdict of accidental death from an overdose of chloral.

#### Fires.

On Sunday night the business premises of Mr. J. Keeble, chemist and druggist, Thame (late manager to Mr. W. G. Gordelier, Sittingbourne), were partially destroyed by fire, caused by a candle which had been accidentally left alight.

Early on Monday morning a fire was discovered at a chemist's shop in King Henry Street, Stoke Newington. A sandpipe was quickly put in requisition, and two steamers were also at work, but the building, which consisted of seven rooms, was nearly burnt out before the fire was extinguished.

#### Carbolic Poisoning.

On Saturday, June 25, an inquest was held at Liverpool on the body of Samuel Fletcher, 27 years old, life-insurance agent, who had been lodging at 53 Rosalind Street. It was stated that since May last year deceased had been engaged to be married to a young lady, who, however, in August jilted him, and suddenly married another lover. Ever since he had been in very depressed spirits and brooded over the affair. On June 23 deceased went out before breakfast, and it was afterwards found that he purchased a pennyworth of carbolic acid and swallowed part of it. Medical aid was summoned, but deceased soon expired in agony. The jury found that deceased committed suicide by drinking carbolic acid during temporary mental derangement.

## Irish News.

### Great Fire at Haslett's.

One of the most disastrous fires which have occurred in Belfast broke out on Wednesday on the premises of Messrs. J. & J. Meath Haslett's drug warehouse, North Street, Belfast. Flames were first perceived about 1 o'clock, and they spread so rapidly, notwithstanding the exertions of the brigade, that in a very short time eight houses were completely gutted, and damage to the extent of over 50,000l. was done. The origin of the fire is unknown, but it appears to have occurred in the rear of Messrs. Haslett's premises. The fire spread to several large stores at the rear filled with inflammable materials, and then extended at right angles to Rosemary Street, burning an auction mart, in which a sale of 20,000l. worth of pictures and valuable articles was being conducted, a music warehouse, a large stationery establishment, and two other houses. There were several narrow escapes of employes at Messrs. Haslett's establishment. Fortunately, no one was seriously hurt, although a few cases of contusions and slight burns were treated at the Royal Hospital. The property was insured.

### Suicide of Mr. H. N. Draper.

We deeply regret to record the death, under very sad circumstances, of Mr. Harry Napier Draper, managing partner in the firm of Bewley & Draper (Limited), wholesale druggists and mineral-water manufacturers, Mary Street, Dublin. Mr. Draper was well known to a great many pharmacists on this side of the Channel, and he was a frequent traveller on the Continent and in America. His cheerfulness was characteristic, and his ability as a pharmacist and as a business man was widely recognised. He was registered as a pharmaceutical chemist under the Irish Act in March, 1876, and acted as examiner in chemistry at the examination for licence for many years. He was also a member of the Council, and filled the position of Vice-President at the time of the withdrawal of the President, Mr. Brunner, whom he accompanied in resigning. Mr. Draper was 54 years of age. The following report of the inquest, held on Tuesday, at Dundrum, before Mr. Harty, County Coroner, will give the details of the event:—

Mr. Frederick Wm. Egan, brother-in-law of the deceased, stated that Mr. Draper came to his house at Dundrum on Monday evening. Shortly before 10 o'clock witness left the house with Mr. Draper to accompany him to the railway station, as he was leaving for his own house at Milltown. Witness walked on a few steps in front, but not finding Mr. Draper following, he looked back to see what detained him. He saw him then looking at the spirea-plant in the garden as if admiring it. When Mr. Draper saw witness returning for him, he turned his back suddenly, and put up to his mouth something he held in his hand, and then threw it away. Witness suspected what he had done, and said, "Harry, what have you done?" Mr. Draper staggered and fell, at the same time putting a written paper into witness's hand. While he handed the paper he said, "Give that to Charlotte, dear fellow." He tried to make him speak, but it was no use, and he died in two or three minutes without saying another word. Charlotte was the name of Mr. Draper's second wife, witness's sister. On the paper which Mr. Draper gave him was written:—

My Beloved,—My pen and my mind refuse their dread duty. My brain-power has utterly failed, and without hope of recall. Do you—could you—think hardly of me when I tell you that the case is utterly hopeless—that the only alternative is a life of torture to myself and misery to you all? If you ask "For" [witness explained that this was a name by which his family called him] or Mr. Brunner, you will hear what they think. If Dr. Hadden came now, he would rightly put me under restraint, and even with you, my beloved, and my darlings my life would be one which you would not contemplate calmly. I do not leave an enemy, and no human being is to blame. It is, then, all for the best. The cause of my illness was simply shock, acting on a nervous constitution. Nobody is to be blamed. I got the hydrocyanic acid in Mary Street this morning. Had I gone away I could not come back alive. My love to all who have ever loved me. My poor wife, be comforted, as this is as much a disease as if it had been a liver-complaint —



The Coroner here intimated that this was quite enough of the letter for the jury.

The witness, continuing his evidence, said that on that morning he found a small bottle, labelled "Hydrocyanic acid," under a tree in the garden.

The Coroner: Did you notice anything strange about Mr. Draper?

Witness: Yes, in a few small things. He told me he dreaded being sent to a lunatic asylum, that if one doctor was called another doctor would be called and a certificate would be signed, and he would be sent to a lunatic asylum. I noticed a few times that when I spoke to him he seemed not to hear me. There had been no idea of putting him into a lunatic asylum.

The Coroner: His father, I believe, died in the same way?—I heard so.

By "Mary Street" mentioned in the letter, you understood Mr. Draper meant his own premises?—Yes.

Henry Draper, son of the deceased, stated that no financial matters could have preyed on his father's mind, as he was in very good circumstances. He was sorry to say he noticed something strange about his father lately. They wished to get him away, but there was no idea of putting him into a lunatic asylum. They kept large quantities of hydrocyanic acid in stock on their premises in Mary Street.

To the Coroner: His father's life was insured.

Dr. Usher, Dundrum, deposed that he made a *post mortem* examination of the body of Mr. Draper, and found that he died from the effects of poisoning. The blue bottle (produced) found by Mr. Egan was an ounce bottle. Half a drachm of the poison which it contained would cause death in a few minutes. He was summoned when the occurrence took place, and arrived about four minutes after the deceased had drunk the poison. He was then dead.

The jury found that the deceased committed suicide by taking poison while of unsound mind.

#### Methylated Tinctures.

Another Inland Revenue prosecution is reported from Sligo. Mr. P. N. Whyte was the defendant. For the prosecution, Mr. George Taylor Stoker said he was one of the analysts of Somerset House, London. He and a colleague, Mr. Woodburn, had been on a tour of inspection, and at the shop of Mr. Whyte they found two bottles—one labelled "Tincture of opium, methylated," and the other "Tincture of arnica." The arnica was not labelled "methylated." Mr. Whyte stated that he did not know anything about them, and after going and making inquiry in the front shop, he stated that an assistant had prepared them without his knowledge. In defence, Mr. Whyte said an assistant had prepared these articles in error. He had told him to do away with them, but that had not been done. The defendant was fined in the mitigated penalty of 25*s.*, with the recommendation that the penalty should be further reduced to 1*l.*

#### Rodolph A. C. Burnes, M.D., T.C.D.

Dr. Burnes, member of the Council of the Pharmaceutical Society of Ireland, and honorary treasurer of the School Committee, was on Thursday last one of the ten graduates of Trinity College, Dublin, on whom the degree of doctor of medicine was conferred.

#### Re Charles Johnston, Druggist.

Mr. William Hayes, President of the Pharmaceutical Society, has been appointed trade assignee in the matter of the estate of Mr. Charles Johnston, druggist, Upper Sackville Street, Dublin.

#### Pharmacy Act Prosecutions.

The defendant in the case reported last week at Lurgan was William Henston, not Hewetson as printed, and four penalties of 5*s.* each were imposed, with costs 2*s.* 10*s.*

#### Lead in Soda-water.

The adjourned summons against Archibald Smith, under the Sale of Food and Drugs Act, for having sold soda-water said to contain lead, came on for hearing at the Londonderry Petty Sessions last week. Professor Leebody had analysed one of the samples seized, and had found lead. The other

specimen had, at the request of the defendant, been forwarded to Somerset House for examination. The Somerset House certificate stated that the 10-oz. sample of soda-water contained  $\frac{1}{100}$ th part of a grain of tin and lead, the latter being present to the extent of only a trace. Professor Leebody, examined by Mr. Cay, the prosecuting solicitor, said that water containing  $\frac{1}{10}$ th of a grain of lead to the gallon would be injurious to health. An eminent chemist had stated that  $\frac{1}{15}$ th would be the smallest quantity that could be taken without danger. He had known very serious results from drinking water containing  $\frac{1}{10}$ th grain. If mineral-water makers took proper care and had proper machinery, the lead would not be there. Witness, in reply to a question, said that the word "trace" had a technical meaning. It meant that the analyst had trouble in finding out the exact amount—that there was difficulty in estimating it. Dr. O'Kane, examined by defendant's solicitor, said that in his opinion the quantity of lead disclosed by the analysis would not be injurious to health. For the defendant it was contended that the Bench was bound to accept the analysis of Somerset House, and that as the offence charged in the summons was not in agreement with it, the prosecution should fail. If the waters of Cantrell & Cochrane and other makers were analysed they would be found to contain lead. Prosecutors denied the latter statement, stating that they had analysed the waters of Cantrell & Cochrane and had found them quite pure. The defendant was fined 1*l.* with 1*l.* costs, and ordered to pay the fee to Somerset House for analysis.

## Scotch News.

#### Dundee Pharmaceutical Bachelors.

The *People's Journal* of last Saturday includes two chemists in its gallery of notable local men. These are Mr. D. J. McKinnon and Mr. D. H. Ferrier, both of whom are on the magisterial bench, and have served Dundee well in other public capacities. Bailie McKinnon is a Montrose man, but has been in business in Dundee more than a quarter of a century. Bailie Ferrier is a pure Dundonian.

#### Edinburgh Medical School.

The appointment of Drs. Leith and Muir to be heads of the pathological department is signalled by a strange incident. A freshman wandered into the Royal Infirmary the other day, says a correspondent of the *Evening Dispatch*, and in the course of his travels landed about 1 P.M. in the P.M. theatre. Spotting a benign-looking third year's man, the fresher tackled him, and the following conversation was overheard:—

"I say, what place do you call this?"

"Oh, this is the *post-mortem* room."

"How can you tell that it is the *post-mortem* room?"

"You know it by the specimens and by the smells."

Here the improved ventilation of the P.M. room broke down, and the freshman subsided for a few minutes. Presently, however—"What does that gentleman say?"

"He says he has made a *post-mortem*. All the gentlemen make *post-mortems*; they would rather make *post-mortems* than go to a dinner-party."

"What's that on the plate?"

"That's a tumour. It is a very large tumour. It weighs 112 lbs. The patient weighed 88 lbs."

"Was the tumour removed from the patient?"

"No; the patient was removed from the tumour."

"Did they save the patient?"

"No; they saved the tumour, so the operation was perfectly successful."

"What is this in the bottle?"

"It is a tapeworm. It is a long tapeworm; it is three-quarters of a mile long."

"But isn't that rather a lot for a tapeworm?"

"Well, it is rather big for a tapeworm, but it's not much for the R.E.I. The respected uncle of one of our professors—"

Here somebody murmured, "That is all to-day, gentle-



men," and in the confusion the remainder of the conversation was unheard.

#### British Pharmaceutical Conference.

The pink circular of the Edinburgh Committee is now almost ready, and members will probably receive copies in the course of next week.

#### Pharmaceutical Golf at Edinburgh.

The first competition for the "Dick" monthly challenge medal was played over the Braids last Friday. The winner of the medal—which was played for scratch—turned out to be Mr. Sutherland, with the score of 90; with Mr. P. Wilson, 105, second. Owing to the inclement weather, Messrs. Traill and Blake did not play on Saturday.

## French Pharmaceutical News.

(From our Paris Correspondent.)

**DR. PRAVAZ.**—The death is announced of Dr. Pravaz, the inventor of the syringe bearing his name which is employed in medicine for subcutaneous injections. Dr. Pravaz died at Lyons, where he directed an Orthopaedic Institute.

**THE PHOTOGRAPHY OF COLOUR.**—Another attempt to solve the difficult problem of the photography of colour has been made by two French savants, Messrs. George Fournier and Emile Gaitton. The former is a chemist and the latter an engineer. They opened a private exhibition here last week, a number of very excellent specimens being shown. The outlines of the photographs are reproduced as clearly as in average good proofs, while the light, shade, and colour of the original are well preserved.

**A POISONER ARRESTED.**—André, the laboratory assistant, who was suspected of an attempt to poison the family of the manager of Boué's pharmacy in the Rue Grenier, St. Lazare, was arrested by the police last Sunday night. The details of this case were given in our issue of June 11. It has been definitely proved that André (who is also known as Wursthorn) poisoned the wine drunk by the manager, M. Verdier, and his family with hydrochlorate of morphine. André had recently entered the St. John's Hospital as laboratory assistant, and on being arrested there he made a clean breast of his attempted crime.

**THE PHARMACIST AND THE DOCTOR.**—It may be remembered that in 1891 Dr. Manilevé was charged by his old school-chum and friend M. Biard, pharmacist, with receiving goods stolen by the latter's wife. He was sentenced to two months' imprisonment. After this affair the *liaison* which existed between Dr. Manilevé and Madame Biard having the appearance of being at an end, the pharmacist consented to pardon his wayward spouse, but some time after he met Dr. Manilevé and Madame Biard, arm in arm, quietly sauntering down the Avenue de l'Opéra. The pharmacist, drawing his sword-cane, which, by the way, had originally been a present from the doctor, rushed on his wife's lover and wounded him, though not severely. M. Biard has just appeared before the Tenth Correctional Chamber on the charge of having administered "blows and wounds." The magistrate, appreciating the cause of the bellicose pharmacist's ire, gently admonished him and decreed a fine of 12. The judgment also contained an order that the pharmacist's sword-cane should be confiscated.

**THE PHARMACISTS' SWINDLER.**—A very well dressed individual presented himself a few days ago at M. Delage's pharmacy, Rue de la Roquette, and handed to that gentleman a card bearing the name of Mermoz, doctor, St. Mandé, and pressed, politely enough, for the loan of a louis. "My wife," said he, "is still at the Vincennes railway-station, where I am going to join her. We were unable to take a cab, because I have unfortunately left my purse at home, and we have not sufficient money with us to pay for dinner and our seats at the theatre." M. Delage lent the 20f., and his visitor left the pharmacy and proceeded towards the Vincennes station, which he entered, but only to leave again immediately. M. Delage had in his shop a keen-

witted assistant, who, suspecting his employer had been the victim of a swindler, had the curiosity to follow the smartly-attired *quasi*-doctor. The latter walked past several chemists' shops, which he examined attentively, and finally entered that of M. Deleytre, Boulevard Richard Lenoir. The amateur detective kept watch, and saw the individual leave the pharmacy after a few minutes. Entering in turn, the assistant said to M. Deleytre, "The man who has just left here probably tried to borrow money?" "Yes," replied the pharmacist, "he is Dr. Mermoz, of St. Mandé, and has forgotten his purse. I lent him 10f." The suspicions of M. Delage's assistant were thus confirmed. Chase was given to the swindler, and he was arrested by a couple of policemen, who took him to the nearest commissary of police. On being interrogated by that functionary, the would-be man of medicine declared himself to be Hippolyte Hebran, 36 years of age, residing at St. Mandé. He now both lunches and dines at the expense of the city of Paris. His visit to the theatre is indefinitely postponed.

## Foreign and Colonial News.

**THE FLÜCKIGER TESTIMONIAL** will be presented to the Professor on July 9. It consists of an address, a medal, an album containing photographs of the subscribers, and a Flückiger Scholarship.

**MEDICAL TRAINING IN TURKEY.**—The Imperial Civil School of Medicine at Constantinople is too small for the increasing number of students, and in consequence a move is to be made to a larger institution at Kadirga, Stamboul.

**MR. BORRON'S DEATH.**—Latest reports from Ceylon indicate that the death of Mr. Borron, the well-known planter, was not due to his falling over a cliff. It seems that foul play is suspected, or that the body was thrown over the cliff after death.

**AUSTRIAN MALT.**—The export of malt from Austria is increasing very rapidly. Fifteen years ago the annual production was 491,135 metre-centners, last year 1,188,869 metre-centners, and the highest point touched was 1,324,768 metre-centners in 1889.

**PETROLEUM IN CEYLON.**—There is a proposal to raise the Ceylon import duty on petroleum to about 50 per cent. of its spot value. It is stated that this will be very detrimental to the use of petroleum in the island, as of late it has been increasingly used as a fuel.

**THE NESTOR OF AUSTRIAN PHARMACY.**—Austrian pharmacists have been paying a compliment to Johann Paulini, a Vienna pharmacist, who is just entering upon his 67th year in pharmacy, having commenced his apprenticeship on July 20, 1826. Herr Paulini is in his 80th year, and is a hale hearty man, highly respected by his confrères.

**THE CHOLERA MICROBE.**—Surgeon-Captain Patrick Hehir, of the Barga Medical Service, Hyderabad, is reported to have discovered "polymorphic infusoria" in the blood and excreta of cholera patients, and to have confirmed and extended Laveran's researches in relation to similar organisms in the blood of persons suffering from malarial diseases.

**COTTON-SEED OIL IN PORTUGAL.**—According to the regulations which were adopted in May, the handling of cotton-seed oil will in future be restricted rather firmly in Portugal. It will only be admitted for exporting or denaturising, and every means will be taken to prevent the sophistication of olive oil by it, or passing it off as a food-oil of the same value as olive oil.

**UNITED STATES TRADE-MARKS.**—Registered at Washington, July 14: "Abraham's Pills" over figure of a dandelion-plant, for pills, by J. S. Abraham, Sydney, N.S.W.; "Electro-Mythique," for rheumatism-remedy, by the Cable Speciality Company, Pittsburg, Pa.; "Chlorohrom," for hypnotic compounds, by Burgoyne, Burhidges, Cyriax & Farries, London, England; "P" in white on a square red ground, for pills, by Hartie & Mylius, Halifax, Canada; "Dipsocura" for medicine for drunkenness, morphomania, &c., by the Chicago Dipsocura Company, Chicago; "Pildoritas" for pills, by H. C. Wilkinson, Chicago, Ill.



**PHARMACOGRAPHIA INDICA.**—Before his death, Dr. Dymock was busy with a supplementary volume to "Pharmacographia Indica" which is to contain the additional information obtained since the earlier parts of the work were published. Dr. Dymock's valuable library has been sold by auction.

**THE WATERS OF YALOVA.**—At the Imperial Society of Medicine, Constantinople, on June 17, Dr. Stekoulis communicated a report of a special commission which has been investigating the medicinal value of the springs at Yalova, which are of ancient repute. An attempt is being made to revive the interest in the springs, which are about five miles distant from the village of Yalova, and are nearly 250 feet above the sea-level. A chemical analysis of the waters was made by Fayk Pasha and M. Friedmann, who report that they contain sulphuretted hydrogen and iodine. The waters are found to be of value in the treatment of rheumatism, diabetes, and chronic catarrh.

**DRUG-STORES IN U.S.A.**—According to the *Pharmaceutical Record* there are over 34,000 drug-stores in the United States. In the Eastern States there are 10,649, in the Southern 6,239, in the Central 13,073, and in the Western States 4,575. Our contemporary complains that the American Pharmaceutical Association gets poor support from the 60,000 druggists in these stores. The Eastern States furnish 193 members, the Southern 206, the Central 413, and the Western 132. Only twenty pharmacists in Canada support the Association. This shows an average representation of 3.5 per cent. of the number of stores in the States. We may add that the British Pharmaceutical Conference shows up much better than that—viz., about 1,000 of a total membership, or 10 per cent. of the number of pharmacies in Great Britain, but the membership goes outside that area. The American Association meets at the Profile House, White Mountains, New Hampshire, on July 17.

**A BENZINE EXPLOSION.**—An accident, which is in some respects extraordinary, recently occurred in Philadelphia. Some men were repairing a leak in the boiler of a locomotive of the Philadelphia and Reading Railroad Company. The top of the dome had been removed, and at the moment of the explosion the men were still working about the dome. The foreman, whose name was Hoster, was inside the boiler, and two other men were on the top of it outside. A can of benzine had previously been taken into the boiler, and Hoster, apparently forgetting this fact, asked one of the men to hand him a light through the dome. As the lamp was passed to him, the vapour from the benzine ignited. The flame spread instantly to the body of the fluid, and a terrific explosion followed. Hoster, being in the dome, blocked up the only vent, and he was blown violently into the air like a shot from a cannon. He was still living when he was got down from the top of the workshop, and was removed to the hospital, where he soon died.

**STRAITS SETTLEMENTS.**—We gather from the report of Mr. H. N. Ridley, Director of the Botanic Gardens and Forest Department, Straits Settlements, that *Para* rubber may yet be produced in quantities at Singapore. During last year seeds were obtained from Kew and from the trees in the experimental garden, and a large number of plants were raised. Eight acres of this valuable indiarubber-tree were planted at Sumbawang, and the trees are thriving remarkably well. Rubber collected from the trees in the experimental garden was pronounced by Messrs. Silver to be of very good quality. Fast as this plant grows, it will be nearly ten years before it is at the best stage for tapping. The following notes are taken from the Malacca report:—*Annatto* (*Bixa orellana*) has grown well and could be cultivated readily in almost every part of the settlement. Nutmeg grows satisfactorily on the hillsides, but it requires liberal manuring. The Calcutta variety of castor-oil plant (*Ricinus communis*) grows well and fruits freely, but it was badly attacked by beetles lately, and died. Its cultivation has now been discontinued. *Theobroma Cacao* has proved very capricious in Malacca, whole plantations going off without any apparent cause, and its cultivation has also been discontinued. Some of the clove-plants in the garden are now 14 feet high, and in full blossom; the dry red soil of the settlement suits cloves admirably. Maltese lemons, nutmegs, camphor, Ceylon and Mauritius pineapples are growing well, and made favourable progress during the year.

## Pharmaceutical Society of Great Britain.

### MEETING OF SCOTCH EXECUTIVE.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on Wednesday afternoon. Mr. J. Laidlaw Ewing presided, and the following were also present:—Mr. Gibson, Edinburgh; Mr. Jack, Arbroath; Mr. Maben, Hawick; Mr. Nesbit, Portobello; Mr. Johnston, Aberdeen; Mr. Strachan, Aberdeen; Mr. Paterson, Aberdeen; Mr. Sutherland, Dumfries; Mr. Fisher, Dunfermline; Mr. Kermath, St. Andrews; Mr. Kinninmont, Glasgow; and Mr. Kerr, Dundee. Apologies for absence were intimated from Mr. Frazer, Glasgow; Mr. Hardie, Dundee; Mr. McAdam, Glasgow; Mr. Noble, Edinburgh; and Mr. Stephenson, Edinburgh.

The SECRETARY stated at the outset that the meeting should have been held last week but for the unexpected death of Mr. Ewing's father. He (Mr. Hill) was in the position of being unable to communicate at the time with Mr. Ewing, who alone had knowledge of some of the business to be discussed, and if the meeting had been held it would have been impossible to have done anything. Therefore it had been considered advisable to postpone the meeting.

### ELECTION OF OFFICE-BEARERS.

Mr. MABEN said he had great pleasure in proposing Mr. Ewing as chairman of the Executive. Mr. Ewing's conduct in the chair during the past year had given unbounded satisfaction not only to the Executive, but also to their London friends; and he thought that, in re-electing him, they would confer an honour upon themselves and a benefit to the Society. In view of the Pharmaceutical Conference meeting, it was important that they should have such a chairman as Mr. Ewing. Mr. Maben concluded by expressing sympathy with Mr. Ewing in the sad loss he had sustained by the death of his father.

Mr. KERMATH seconded the motion, which was unanimously agreed to.

Mr. EWING, in thanking the meeting for his re-election, said that he should do his best to sustain the dignity of the chair, and he hoped in this year, which would be an important one for them in Edinburgh, to represent the Executive in the Pharmaceutical Conference with some honour to himself and with advantage to the North British Branch. (Applause.)

Mr. NESBIT (Portobello), in proposing the re-election of Mr. Maben as vice-chairman, said that he had taken a considerable interest in the Conference, and it was important that he should be re-elected.

Mr. GIBSON seconded, and the motion was agreed to.

Mr. MABEN said that his re-election was rather against his own will and judgment, as he thought that the office, being one of a purely honorary character, should go round every year. While thanking them for having re-elected him, he hoped that they would keep this in mind next year.

### GENERAL PURPOSES COMMITTEE.

This committee, consisting of the Edinburgh members of the Executive and the Vice-Chairman, was re-appointed.

### NEXT SESSION OF EVENING MEETINGS.

In connection with the evening meetings for next session, the Chairman suggested that he thought it would be advisable to secure Mr. Stanford, Glasgow, to deliver the opening lecture. The matter was remitted to the committee.

### THE CONFERENCE.

The CHAIRMAN stated that, in drafting the circular to the members of the Conference, he had taken the liberty of saying that the Executive would be pleased to throw the Society's rooms open to all members, and inviting them to make their headquarters there if they found it convenient to do so. (Applause.)

Some conversation took place as to the appointment of delegates to the Conference, and on the motion of Mr. Nesbit, the Chairman and the Vice-Chairman of the Executive, and



the Chairman of the Board of Examiners (Mr. J. B. Stephenson), together with the Secretary, were chosen.

Mr. MABEN suggested that a copy of the pink circular should be sent to every chemist in Scotland; and it was agreed to recommend this to the Conference Committee.

The selection of books to be presented by the Conference to the library was left in the hands of the committee.

#### SALE OF METHYLATED SPIRIT.

Mr. KERMATH stated, with regard to the methylated spirit question, that the new spuit was giving him more trouble than ever, because if the bottle were the least damp the spirit was rendered milky. He had learned, too, that furniture polishers could obtain small supplies of the old methylated spirit.

Mr. JOHNSTON said that Mr. Kermath could obtain a small supply too, provided it was to be used for manufacturing purposes and was not for sale.

Another member said that the new spirit was being drunk just as freely as the old.

The CHAIRMAN said that the whole question was now under the consideration of the Excise authorities, and it was probable that there would shortly be some alteration in the law.

#### DATE OF NEXT MEETING.

The CHAIRMAN suggested that the next meeting of the Executive should be held on a Thursday at 12 o'clock noon, instead of on Wednesday at 1 o'clock. Several members having expressed approval of the proposed change, the suggestion was agreed to.

This was all the business, except an informal talk about the extension of the premises.

## Legal Reports.

#### ENNERDALE WATERS.—MOSSOP v. BIRKETT.

In the Chancery Division of the High Court of Justice, on Saturday, June 25, this action came before Mr. Justice North, in the form of a short cause, for the purpose of taking judgment in accordance with the terms of an agreement come to between the parties.

Mr. John Cutler said that the case, which had reference to the right to the use of the term "Ennerdale waters," came on by way of motion by consent, the parties being *sui juris*.

Mr. Sebastian appeared for the defendant.

Mr. Justice North ordered judgment to be entered in accordance with the minutes, the terms of which were not read.

#### THE PHARMACEUTICAL SOCIETY v. BURLEY.

At the Selby County Court, on June 22, the Pharmaceutical Society of Great Britain sued G. H. Burley, druggist, Ousegate, Selby, for 15*l.*, penalties under the Pharmacy Act, 1868, for selling, on May 21 and 30 last, a poison—to wit, a preparation of opium called laudanum—and for keeping open his shop for the retailing, dispensing, or compounding of poison called laudanum.

Mr. Flux, London, appeared on behalf of the Pharmaceutical Society, and Mr. J. K. Burton for the defendant.

It was admitted, on defendant's behalf, that he was not on the register of pharmaceutical chemists and chemists and druggists.

A Mr. Mitchellstone was called, and stated that from instructions received he called at Mr. Burley's shop in Ousegate, Selby, on May 21 last. He saw the defendant, and asked him for twopennyworth of soap liniment, and twopennyworth of laudanum. He was supplied, and he afterwards labelled the bottle when he got home for the purpose of identification. On May 30 he called again at the defendant's shop, and purchased from him twopennyworth of soap liniment and twopennyworth of laudanum. On opening it afterwards, he found it labelled opodeldoc and laudanum. He identified the bottles produced as those he purchased from the defendant.

Mr. Harry Moon was called, and stated that he was in the registrar's office of the Pharmaceutical Society, in London. On the previous Friday, at Hull, he received the two bottles produced from the last witness, and handed them on Monday to Mr. Eastes, an analyst in London.

Mr. J. H. Eastes was called, and said he was an analyst, Fellow of the Institute of Chemistry, and assistant to Professor Atfield, professor of chemistry to the Pharmaceutical Society. He received the two bottles produced from the last witness. He analysed them, and found a preparation of opium in each. There was also opodeldoc or soap liniment in each. The contents of each bottle were intended for external use, and each bottle contained sufficient opium to poison anyone.

There was no defence to the action on its merits, but the Judge was asked to inflict mitigated penalties.

His Honour gave a verdict against the defendant for 10*l.* and costs for selling poison, but did not inflict any penalty for keeping open his shop for the retailing, dispensing, or compounding of poison.

On the application of Mr. Flux, a case was granted for the decision of the superior Court as to whether the defendant was not also liable for keeping open his shop as for the offence of selling.

#### DENTISTS' CHARGES.

At the Cirencester County Court James Lewis Robertson, dentist, Cheltenham and Cirencester, sued the Rev. J. B. McClellan, of the Royal Agricultural College, Cirencester, for 6*l.* 6*s.*, for a case of teeth made for defendant. Mr. Heath appeared for the plaintiff, and Mr. E. B. Haygarth for defendant. For the plaintiff it was stated that after receiving his account for 6*l.* 6*s.* for a gold plate and three teeth defendant wrote that he expected something like a charge of 2*l.* 1*s.* per tooth, and plaintiff replied that he was quite willing to take the case back or to refer the matter to any qualified dentist to see if for such a plate of 18-carat gold and three teeth eight or ten guineas would not be a reasonable charge. Ultimately defendant offered four-and-a-half guineas in settlement, but the offer was declined. Professional evidence was called to establish the reasonableness of the charge. For the defence it was contended that defendant made an actual bargain to pay plaintiff a certain sum, and on principle defendant objected to pay more. Rather than be bothered with the action, however, he offered plaintiff four-and-a-half guineas. He now appeared in court to maintain that the charge should be that of the hard and fast bargain. His Honour gave judgment for defendant, and Mr. Haygarth said three guineas had been paid for the case of teeth, and he asked that it should be handed over to defendant, to which his Honour replied, "Yes, certainly."

#### CONDY & MITCHELL (LIMITED) v. BUTTERFIELD.

BEFORE the Supreme Court of New South Wales, held at Sydney on May 17 last, Mr. Alfred de Lissa moved for, and the Judge granted, a decree by consent for a perpetual injunction to restrain the defendant from applying to any preparation not manufactured by the plaintiff company the term "Condy's Fluid," or from using any label which was an imitation of the plaintiff company's label, or from selling as Condy's Fluid any preparation alleged to be a disinfectant not being of the plaintiff company's manufacture. In the statement of claim it was stated that the defendant had sold a preparation labelled "Solution of permanganate of potash, commonly called Condy's Fluid," the printed matter on the label being also in great part the same as the plaintiff's label. The defendant had written a letter stating that the preparation had been sold in his shop without his consent and contrary to his instructions, and submitting to a decree for perpetual injunction, with costs.

#### ANALYSING FUELS.

On Tuesday, in the Westminster County Court, the case of the City School of Chemistry v. Norris came before Judge Bayley. It was an action to recover some 13*l.* for professional services rendered to the defendant in making certain analyses for him.

The manager of the plaintiffs said the defendant called



upon him and wanted him to analyse some patent fuel for him, and he did so, and charged him two guineas for doing it. On another occasion he visited New Cross with the defendant, and afterwards he analysed the cinders for which he charged three guineas, and later on he was to make a report upon the question whether his fuel would have the same effect upon iron as ordinary coal. Later on he made another analysis for fuels for foot-warmers. Defendant said he was going to sell the patent, but he required a report to see if the gases would have any effect upon the health of anyone. The charge for that was agreed at seven guineas.

Cross-examined by Mr. Cohen: He had claimed the seven guineas from Mr. G. A. Cook, of 17 Devonshire Place, Brighton. He was not aware whether Cook was bankrupt until a few days ago and after this action was brought. Witness did not know Norris was trying to sell his patents until some of the work had been done. He would swear that on February 10 defendant did not call with three other gentlemen. On another occasion Mr. Cook and another person called. Mr. Norris never told him that Cook was liable.

Mr. Cohen said the defendant was negotiating for the sale of his patents, and at Mr. Cook's request he called upon the plaintiffs with Cook and a person named Walker, and when the order was given Norris told him Cook was liable, and the plaintiff had made an application for the money from Cook. His client did not know the company, but only the manager Williams.

The defendant and two other witnesses bore out these statements, and his Honour, after hearing submissions of the plaintiffs' counsel, said that there must be, in the face of the evidence, a verdict for the defendant, with costs.

#### FRAUD ON MESSRS. BEECHAM.

AT the Northampton Quarter Sessions, on June 25, William Phillips, *alias* H. Coles (23), chemist's assistant, pleaded guilty to an indictment charging him with having obtained from Jane Mason, Emma Taylor, Charles Biseker, Elizabeth Wright, Eliza Neville, Emma Turvey, Annie Stevenson, Mary Dickens, Mary Drane, and Emma Watts, various sums of money by means of false pretences, in Northampton in May last, and he was further indicted for unlawfully and falsely applying to certain pills the trade-mark of Thomas Beecham and Joseph Beecham, trading as Thomas Beecham, with intent to defraud, between May 24 and 27 last. [A report of the police proceedings will be found in our last issue.] The Recorder, in passing sentence, said chemists who disposed of Beecham's pill-boxes in the way which appeared to have been the case here, really assisted a man in defrauding the public in the way the prisoner had done. It should be a great caution to them, and if they wanted to get rid of the boxes they should dispose of them in such a manner that they could not be tampered with in any way. He sentenced the prisoner to ten months' imprisonment with hard labour.

#### BANKRUPTCY REPORTS.

*Re* HENRY M. OLVER, late of 3 Oxford Street, trading as "The Salvine Manufacturing Company."

THE sitting for the public examination of this debtor was held at the London Bankruptcy Court on June 24, before Mr. Registrar Broom. The accounts filed show total liabilities 3,027*l.* 12*s.* 5*d.* (unsecured 2,102*l.* 19*s.* 11*d.*) and assets 219*l.* 7*s.* 7*d.* after allowing for payment of the preferential claims.

Mr. E. Leadem Hough, Official Receiver, conducted the examination, Mr. Johnson represented the trustee, and Mr. Stevens appeared for the debtor.

The debtor stated to Mr. Hough that he had practised as a dental surgeon at Harley Street, W., for the past six or seven years, and until two years ago had derived therefrom a gross income of 3,000*l.* per annum. For the last two years, however, it had decreased by about one-third, and as it was incumbent upon him to engage qualified assistants, his expenses had recently swallowed up the profits. In February, 1890, he took the Oxford Street premises with a view to the manufacture and sale of his dentifrice "Salvine." The research

and labour of several years had been devoted to the production of that article. At first he produced it only for the benefit of his patients, but having tested its worth and having every confidence in its properties, he later decided to make it widely known. The advertising was originally limited to his own means, but acting upon the suggestion of Mr. Bowden, who was then associated with him in the business, witness subsequently advertised on a much larger scale, the result being a steady increase in the sale and good profits. Mr. Bowden, in September last, having been formerly on a weekly salary, agreed to purchase the business for 2,000*l.* No change was made in the name of the business which was continued under the style of the Salvine Manufacturing Company.

Mr. Hough: But did you not know that Mr. Bowden would be unable to pay the 2,000*l.* unless the business proved a great success?

In reply, witness said he understood that Bowden's friends would assist him to pay for the business. The whole amount, however, was still owing. It was true that he had since assisted Mr. Bowden by accepting bills to the extent of 1,100*l.* and by becoming responsible for debts to the extent of 600*l.* He so acted, having every confidence in the ultimate success of the business. Negotiations had been pending for the conversion of Salvine into a company, and had the matter been successfully arranged, he would have received considerably more than 2,000*l.*

Mr. Hough: But you had already disposed of the business. How, then, could you have been interested by its conversion into a company?

The debtor explained that he was at the time in communication with a capitalist, who proposed that the business should, with the concurrence of Bowden, be converted into a company.

Mr. Hough: Now, Mr. Olver, was the sale to Bowden a genuine sale?—Certainly it was.

Examination continued: The sources from which he expected to meet the liabilities incurred on Bowden's behalf were the money he was to receive for the sale of the business, together with the profits of the dental practice, or the consideration to be paid for the business by the proposed company.

Questioned by Mr. Johnson, the debtor said he was not interested in any copyrights, and he had, in the statement of affairs, made a full disclosure of his property and assets.

By Mr. Stevens: Salvine was prepared by a secret process, and was not the subject of a patent. Witness was not personally known in the business of the Salvine Manufacturing Company, and with a few exceptions he disputed liability of all debts incurred on the trading subsequent to the sale of the business to Bowden. He lent the assistance before referred to with a view to making the business a success and then receiving his 2,000*l.* for it. He was still of opinion that it was worth considerably more than that amount.

There was no opposition on the part of creditors, and the examination was ordered to be concluded.

*Re* STEPHEN HASSALL, High Street, Newcastle-under-Lyme, S affs, Chemist.

THE following are scheduled as creditors:—

	£	s.	d.
Evans, Sons & Co., Liverpool	..	..	98 12 5
Hassall, W. W., Hanley	..	..	50 10 0

*Re* JOSHUA JAMES THOMAS, High Street, Rhymney, Monmouthshire, Chemist and Druggist.

THIS tradesman has been adjudged bankrupt on his own petition. His gross liabilities are stated to be 429*l.* 19*s.* 4*d.*, and his assets 105*l.* of which 50*l.* is put down as the value of his stock-in-trade, 40*l.* as the value of the trade fixtures, and 15*l.* as the value of the furniture. After deducting preferential claims amounting to 26*l.*, there remains 79*l.* for division amongst the creditors. The debtor alleges the cause of his failure to be depression in trade, owing to the stoppage of the Rhymney ironworks since the beginning of last year, illness during five months of the winter before last, and want of capital. At a preliminary examination debtor informed the Official Receiver that he started business two and a half years ago with a capital of 30*l.*, his own money, and that the only account-book he has kept is a ledger. He



also stated that he became aware that he had not sufficient property to pay all his debts in full six months ago, and that he has contracted debts with most of his creditors since then, hoping that his business would improve. The following particulars are given in his deficiency account:—Excess of liabilities over assets on June 15, 1891, 350*l.*; expenses incurred since that date other than usual trade expenses—viz., household expenses of self and sister—80*l.*; and incidental expenses, 10*l.* 19*s.* 4*d.*

*Re* GEORGE GOODLIFFE, 17 Rendezvous Street and 97 Dover Road, Folkestone, Pharmaceutical Chemist and Optician.

THE first meeting of the creditors under this failure was held on Saturday last at the London Bankruptcy Court, before Mr. Worsfold Mowll, the East Kent Official Receiver.

The debtor filed his own petition on June 13, and has furnished accounts showing total liabilities 4,365*l.* 16*s.* 4*d.* (unsecured 4,213*l.* 15*s.* 1*d.*) and assets valued at 1,846*l.* 11*s.* 7*d.*, and the following are the principal creditors:—

*Unsecured.*

	£	s.	d.
Archer, R., 17 Middleton Street, E.C. .. ..	12	10	1
Baiss Bros. & Co., 4 Jewry Street, E.C. .. ..	74	12	11
Barclay & Sons (Limited), 95 Farringdon Street, E.C. .. ..	85	0	0
Biggleston, E., Canterbury .. ..	14	3	0
Bing & Son, Canterbury .. ..	41	0	0
Bourne, Johnson & Co., Farnival Street, E.C. .. ..	35	0	0
Braham, O., 3 Seckford Street, E.C. .. ..	12	8	1
Clark, J., Folkestone .. ..	14	0	0
Culver, G., 99 White Lion Street, Pentonville .. ..	12	17	3
Davy, Yates & Routledge .. ..	35	16	11
Dunsford, B., Folkestone .. ..	16	19	0
Fletcher, Fletcher & Stevenson, 21 Mincing Lane, E.C. .. ..	10	4	10
Folkestone Gas Co., Folkestone .. ..	42	10	0
Francis, C. & W., Folkestone .. ..	15	13	3
Goodliffe, Mrs. C., Cambridge .. ..	1,800	0	0
Herrings & Co., 40 Aldersgate Street, E.C. .. ..	58	0	0
Hill & Son, 101 Southwark Street, E.C. .. ..	45	9	0
Houghton & Son, 89 High Holborn .. ..	11	2	4
Howest, Isaac, 85 Hatton Garden, E.C. .. ..	20	6	11
Jacquemin Bros., 65 Hatton Garden, E.C. .. ..	12	13	4
Laurence, H., 44 Hatton Garden, E.C. .. ..	10	2	0
Lewis & Co., Farnival Street, Holborn .. ..	11	4	7
Mackey, Mackey & Co., Bouverie Street, E.C. .. ..	20	2	0
Maw, Son & Thompson, 7 Aldersgate Street, E.C. .. ..	33	10	9
National & Provincial Bank, Folkestone .. ..	310	0	0
Perken, Son & Rayment, 99 Hatton Garden, E.C. .. ..	21	18	0
Pollard, W. H., Mountview Road, Finsbury Park .. ..	420	0	0
Schiels, J., Folkestone .. ..	11	11	0
Silver Spring Mineral Water Co., Folkestone .. ..	13	0	0
Smith & Co., 132 Borough, S.E. .. ..	10	12	0
Spalding, Mrs., Cambridge .. ..	30	0	0
Spalding, W. P., Cambridge .. ..	30	0	0
Teubridge, T., Folkestone .. ..	25	0	0
Toogood, W., Heddon Street, Regent Street, W. .. ..	15	0	0
Walker, Troke & Co., 82 City Road, E.C. .. ..	38	0	0
Worrell, W., Folkestone .. ..	16	17	3
York Glass Co., York .. ..	18	0	0

*Partly secured.*

Eastes, T., Folkestone .. ..	520	0	0
(Security valued at 75 <i>l.</i> )			

*Preferential.*

Hythe Building Society, Hythe .. ..	27	0	0
Trustees of Garstangs Estate, Folkestone .. ..	48	9	3

Mr. G. H. Bower, attended the meeting on behalf of the debtor, and Mr. Frederick Hall represented creditors.

In reply to the Chairman, Mr. Bower said his client had not formally lodged a proposal, but was desirous of making a composition offer of 7*s.* 6*d.* in the pound.

The Chairman pointed out that there would be considerable difficulty in getting the composition offer approved by the Court, as by that arrangement the debtor was absolutely relieved of all consequences that might attach to him in respect of misconduct from a trading point of view as mentioned by the Act. The Judge would raise objections to the scheme if his attention were called to any charges that might have to be made against the debtor. The better plan

would be for the meeting to appoint a trustee and committee of inspection, and for the debtor, if able to do so, to afterwards repurchase the estate from the trustee. That course would not deprive the debtor of his business, whilst it enabled the trustee to make an investigation into the finances and leave the Official Receiver free to deal with the conduct of the debtor. The trustee would have full power to deal with any offer that might be submitted to him, but would, of course, be guided by the meeting. The debtor had been in business at Folkestone for a number of years, and from his (the Chairman's) own knowledge bore an excellent character. The creditors had every wish to help the debtor, but probably the better plan would be to appoint a trustee at that meeting and give him instructions to sell the estate at a fair value.

Mr. George White said he represented the largest trade creditors, who had no wish to press hardly upon the debtor. He thought the Chairman's suggestion a good one.

Mr. Hall, as representing creditors to the extent of 500*l.*, said his clients were willing to do anything in their power to assist the debtor. They sympathised with him in his troubles, and were of opinion that the failure could be thoroughly explained, as the debtor had a good reputation at Folkestone.

The Chairman: Has the debtor any security to offer for the payment of the composition?

Mr. Bower: None, sir.

The Chairman said that under those circumstances it would be impossible to obtain the Judge's consent to the scheme.

Mr. Bower said he was of opinion that the course suggested by the Chairman was at least as good for his client as the composition. It would possibly be found that the estate would be worth less than 7*s.* 6*d.* in the pound.

Mr. White: Possibly he may be able to find security later.

Mr. Bower: I should advise him to fall in with the suggestion of bankruptcy.

Resolutions were then passed to wind up the estate in bankruptcy with Mr. George White (Francis, Nicholl & White), 14 Old Jewry Chambers, E.C., acting as trustee, assisted by the following committee of inspection—viz., Mr. J. P. Quick (Barclay & Sons, Limited), Mr. W. H. Pollard, Mr. A. Baiss (Baiss Bros. & Co.), Dr. Eastes, and Mr. F. Tenbridge.

The public examination of the debtor is appointed for July 1, at the Guildhall, Canterbury.

*Re* RICHARD VERITY, 64A Seymour Street, Portman Square, Chemist and Druggist.

THE public examination of this debtor was held on Tuesday last, at the London Bankruptcy Court, before Mr. Registrar Linklater. The amended statement of affairs shows unsecured creditors, 467*l.* 1*s.*; liabilities on bills, 155*l.*; preferential claims, 25*l.*; assets, *nil*; and a deficiency of 647*l.* 1*s.*

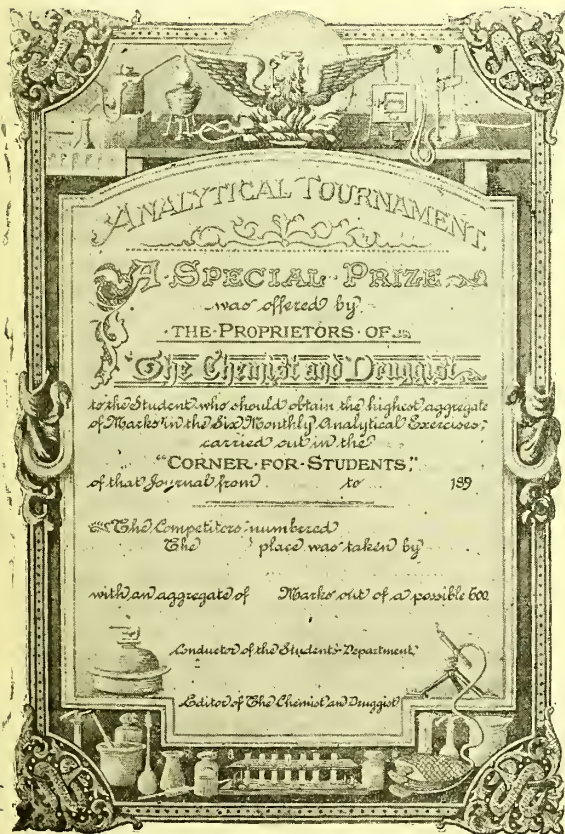
Under examination by Mr. A. H. Wildy, Official Receiver, the debtor stated that he commenced business as a chemist and druggist in 1862 with 40*l.* or 50*l.* free capital. From 1878 to the end of 1891 he had no shop, but supplied his former customers with goods privately. In December, 1891, he took the premises at Seymour Street, under an agreement with Mr. Dawe, the landlord and former owner, by which he was to pay 140*l.* for the stock and fixtures if he found he could make the business pay its way. Witness had since traded there, but had been unable to pay off any part of the purchase-money. In April last, Messrs. Natali obtained judgment against him for 33*l.*, and by issuing execution, the effects were seized by the sheriff, who continued in possession until May 7. When he took the shop in December, 1891, witness was admittedly insolvent to the extent of 150*l.*; but, knowing that fact, he agreed to pay an annual rental of 120*l.*, without taxes, and incurred further liabilities for alterations to the premises and keeping up the stock. He hoped to make the business a success. Messrs. Natali supplied him with carboys and window-fittings, and as they took away some of the goods that had been supplied, witness caused their action to be defended on the ground that they demanded payment for goods that had been returned to them. Their debt was originally 12*l.* 14*s.*, and the costs of the action amounted to 21*l.* 16*s.*, making the total claim 34*l.* 10*s.* The stock and



effects had been sold by the landlord under a distraint for rent due at Lady Day last. No account showing the result of that sale had been handed to witness, therefore he was unable to state the amount realised. He was turned out of the premises before the sale took place. He admitted that in May, 1891, his liabilities exceeded his assets by 250*l.*, and that he had incurred the greater part of his present indebtedness with a knowledge of insolvency, but then he anticipated being able to pay his way in time as the business was rapidly increasing. Another inducement for him to continue trading was his expectation of getting a partner to join him and introduce some capital. His debts included liabilities upon accommodation bills, which he signed with a view to raising money to pay off pressing debts. In one instance the other party to the bill went away with the proceeds and had not been heard of since, so that witness, although liable for the whole amount of the bill, had not received one penny in exchange. It was only recently that he was pressed by creditors, as he had formerly enjoyed good credit. No profit had been made during the past year, and for some few years previously the profits had been absorbed in the expenses. No books of accounts had been kept since 1879, chiefly by reason of witness's health having been in a bad state. There had been a previous arrangement with the creditors in 1875. The creditors came down upon witness, and as he was unable to pay them in full he settled the matter by paying a composition of 5*s.* in the pound upon liabilities amounting to 2,400*l.* This was the first time he had been adjudicated bankrupt. There was no opposition on the part of the creditors, and the examination was ordered to be concluded.

#### CORNER FOR STUDENTS.—HALF-YEARLY PRIZE.

WE append a reduced fac-simile of the certificate given to the first three competitors in the Analytical Tournament, which was concluded last month.



Copies of this certificate have been awarded to Messrs. W. Tiltman, J. R. Powell, and H. Bowden.

#### TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should at once communicate with Sir Reader Luck, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the "Trade Marks Journal," June 22, 1892.)

"EKNOS"; for chemical substances used in medicated baths. By M. Maitland-King, 31 Grosvenor Street, Grosvenor Square, W. 153,277.

"REBELIA"; for perfumery and toilet articles. By W. H. Richardson, 222 Market Place, Dudley. 164,778.

(From the "Trade Marks Journal," June 29, 1892.)

"SANDAL," and sketch of a sandal; for photographic sensitive plates or films. By R. W. Thomas & Co. (Limited), 10 Pall Mall, London. The essential particular is the device, the exclusive use of the word "Sandal" being disclaimed. 164,783.

"OSBORNE'S WORM FLUID," and sketch of head of calf and a lamb on circular label; for a medicine for calves and lambs. By G. Osborne, Fulstow, near Louth, Lincs. The essential particular is the combination of devices, the exclusive use of added matter being disclaimed. 163,872.

"INIVINI"; for a medicinal preparation for cattle. By A. C. Granville, 1 Packington Street, Islington, London. 164,765.

Shield device showing golf sticks and balls; for chemical substances used in medicine and pharmacy, for mineral and aerated waters, and for perfumery. By J. Macintyre, 33 High Street, North Berwick. The essential particular is the combination of devices, the exclusive use of added matter being disclaimed. 163,698, 163,700, 163,701.

Oval label with words and picture of "MONK'S ABBEY," and wording; for mineral and aerated waters. By Arnold & Co., Lincoln, (Limited), 281 High Street, Lincoln. The essential particulars are the combination of devices, and the words "MONK'S ABBEY," the exclusive use of the added matter being disclaimed except the name. 162,190.

Picture of rhinoceros, and name of company; for mineral and aerated waters. By the Aston Grounds Company (Limited), Aston, Birmingham. 164,249.

Picture of Durham Cathedral, with title on oval label; for mineral and aerated waters. By W. H. Wood, The City Mineral-water Works, Gilesgate, Durham. The essential particular is the device, the exclusive use of added matter being disclaimed. 164,414.

#### NEW COMPANIES.

CHESTER MINERAL-WATER COMPANY (LIMITED)—Capital, 2,000*l.*, in 1*l.* shares. Objects: To carry on a manufactory for aerated waters, syrups, cordials, &c. The number of directors is not to be less than five nor more than seven, the first being Messrs. T. Ball, J. Weston, H. E. Ostle, W. Rowland, and A. R. Smith. Qualification, 10*l.* Remuneration to be fixed by the company in general meeting.

MEDICAL REMEDIES CO. (LIMITED).—Capital 10,000*l.*, in 1*l.* shares: to acquire a proprietary medicine or remedy known as "Bew's Remedy," and to work, develop, manufacture, and sell the same, &c. The first subscribers (who take one share each) are:—R. McKenzie, 34 Bold Street, Liverpool; J. Bond, 60 Hope Street, Liverpool; W. Nash, 13 to 17 Brunswick Road, Liverpool; J. P. McPhail, 311 Edge Lane, Liverpool; A. Armour, 10 Holly Road, Fairfield; W. Gracie, 303 Edge Lane; and N. Burnell, Mayfield, Egremont. There shall not be less than three nor more than seven directors, and the first are W. Gracie, R. B. Jones, J. E. Perkins, N. Leighton, and W. C. Bew. Qualification 100*l.* Remuneration to be determined in general meeting.



## Trade Notes.

MR. FREDERICK BOEHM sends us some fine crystals of sugar of milk made by Mr. Carlo Erka, of Milan, for whom he is agent. It is supplied both in crystals and powder.

MESSRS. JOHN RICHARDSON & CO. (LIMITED), Leicester, ask attention to the circumstance that, under misapprehension, orders for them have been sent to a wrong address. They ask correspondents to be exact in addressing their letters to them at 10 Friar Lane, Leicester.

MESSRS. MAY, ROBERTS & CO., of 9 Clerkenwell Road, have just issued their revised half-yearly (July) price-list, and will send a copy to any member of the trade post free. The list is well illustrated. We notice that the price of Higginson's enemas has been lately reduced, and are quoted at a very low figure. The firm claim to give their customers the benefit of the circumstance that they employ no travellers.

We understand that Messrs. Hodgkinsons, Treacher & Clarke, of Upper Whitecross Street, E.C., have admitted into partnership Mr. John Slinger Ward, pharmaceutical chemist, who has been director of the firm's laboratories for the past nine years. Mr. Ward was formerly associated in a similar capacity with several London and provincial houses before entering his present firm's employment, having after his apprenticeship gone through the "Square" school, and thence to Messrs. John Bell & Co's laboratory. The new partnership dates from July 1, and the name of the firm will remain unaltered.

## MARRIAGES.

AINSLIE—DICK.—At 4 Colinton Road, Edinburgh, on June 14, by the Rev. R. Dick, U.P. Church, Colingsburgh, assisted by the Rev. W. Lyon Riach, M.A., Grange Parish Church, William Wood Ainslie, of Messrs. Gardner & Ainslie, chemist, Edinburgh, to Sibella Mary, youngest daughter of the late William Dick.

GOLIGHTLY—CUTTING.—On June 22, at the Wesleyan Chapel, Selby, by the Rev. G. E. Cutting (uncle of the bride), J. W. Golightly, A.P.S., Pudsey, Leeds (late of Durham), to Edith Cutting, Selby.

HUNTRODS—HIRST.—On June 7, at Burley Lawn Free Church, by the Rev. E. Boocock, of Heckmondwike, Walter Huntrods, druggist, to Jennie, eldest daughter of Mr. Geo. H. Hirst, of Kirkstall.

SHERA—TOWLER.—On June 29, at the Cathedral, Manchester, by Rev. Canon Winstanley, William Arthur Shera, pharmacist, Acton, W., youngest son of the late James Dundas Shera, of Horncastle, to Laura Edith, only daughter of the late John Henry Towler, of Rydal Mount, Levenshulme, Manchester.

## DEATHS.

BOOTH.—The death is announced of Mr. John Booth, chemist and druggist, of Heckmondwike, Yorkshire. Aged 76. He was one of the founders of the Heckmondwike Gas Company, and for many years its secretary.

LASCCELLES-SCOTT.—On May 30, at Ulverstone, Lancashire, Mr. C. W. Lascelles-Scott, chemist and druggist. In his 26th year. The deceased was a son of Mr. Wentworth Lascelles-Scott, F.C.S., &c., of the Laboratory, Forest Gate.

LEECH.—On June 27, Mr. Frederick Leech, chemist and druggist, of Tideswell, Derbyshire. Aged 65.

DR. CARL SCHORLEMMER died at Manchester on Monday, June 27, in the 58th year of his age. He was born at Darmstadt, and studied principally at Giessen. He came to England in 1858 as private assistant to Sir Henry E. Roscoe, who had shortly before been appointed to the chair of chemistry at the Owens College. On the resignation of Mr. Dittmar, as assistant professor of chemistry, in 1861, Schorlemmer became his successor. This gave him time for original research. He devoted his work principally to the hydrocarbons, and his studies went far towards revolutionising the ideas of chemists

as to the constitution of these bodies. His discovery of the identity of the two bodies known as dimethyl and ethylhydride paved the way for further advances in organic chemistry which have proved to be of much widespread importance. The Royal Society catalogue gives the titles of thirty-two papers by Mr. Schorlemmer, most of which mark an important step. His work was recognised by the Royal Society electing him a Fellow in 1871; and the University of Glasgow distinguished him by the honorary degree of LL.D. A chair of organic chemistry was founded for him at the Owens College, and in connection with Sir Henry Roscoe he has been for many years engaged on the great treatise on chemistry published in their joint names, which, as far as it has been published, goes already beyond what any other textbook has given us; but the volume which was to complete the series will remain unwritten. Dr. Schorlemmer was not a brilliant lecturer, but he was an eminently successful laboratory teacher.

SHUBOTHAM.—On June 23, at Sutton Coldfield, Charles Shubotham for thirty years in the retail establishment of T. & W. Southall, Birmingham. Aged 51.

WOOD.—On June 16, at his residence, Manor View, Barnsley, on the 57th anniversary of his birthday, Mr. Eugene Wood, senior partner in the firm of Wood Bros. & Co., of the Borough Flint Glass Works, Barnsley.

## Notes of Nobilities.

### MICROSCOPIC BOTANIC SPECIMENS.

MR. EDWIN TERRY, F.R.M.S., a chemist at 1 Clifton Terrace, Nightingale Lane, S.W., has produced in a very neat folding case a set of microscopic slides of botanic subjects, intended to illustrate and aid the study of elementary structural botany. There are twelve slides in the case, on one of which three specimens are mounted. We have been astonished to note what a wide range of instruction is comprised in the fourteen specimens thus submitted to the student by Mr. Terry. The structure of seeds, roots, leaves, the cellular arrangement of exogenous, endogenous, and acrogenous plants, stomata on the cuticle of the leaf, cystoliths, annular rings, spiral, pitted, scalariform, and laticiferous vessels are all represented by judiciously chosen examples. The student furnished with a fairly good microscope can lay a good foundation of botanical science with the aid of these specimens. We were at first inclined to suggest that Mr. Terry should enclose a short explanatory treatise with each case, but it is probably the better way to leave the student to investigate each subject for himself from the usual text-books. The sections are mounted and stained in the most skilful manner, and the case with slides complete is sold for 12s. Mr. Terry can hardly expect to make much profit out of his venture; but he is entitled to the credit of having contributed a very useful labour of love for the benefit of beginners in botany.

### CARBOLINE.

THIS is the name under which Mr. Henry Ellison, jun., of Cleckheaton, has introduced a new disinfectant containing the active bactericidal principles of coal-tar combined with eucalyptus oil. Carboline is a blackish syrupy fluid, which forms an emulsion on the addition of water, and Mr. Ellison claims that, although it contains carbolic acid, it is non-poisonous, while proof is advanced showing that as a disinfectant it is as powerful as carbolic acid. As the fluid is cheap and neatly put up, chemists might do well to encourage the sale of it, if thereby the fearful mortality from carbolic acid would be decreased. The similarity in the names should aid in this, and carboline is not unlike crude carbolic acid in appearance.



## PHOTOGRAPHIC NOTES.

## "ROUGHEST" BROMIDE-PAPER.

THE Fry Manufacturing Company have for some time been selling a very rough-surface paper. They have just published a beautiful print, entitled "Going Out to Sea," on this paper, toned with uranium, from a negative by Mr. A. F. Golding. The effect of the rough surface is exceedingly artistic.

## "HOW TO BE A SUCCESSFUL AMATEUR PHOTOGRAPHER."

THAT Mr. W. J. Lancaster, F.C.S., has a keen appreciation of the failings and possibilities of the average amateur a glance at his pretty manual amply demonstrates. It is a guide for the field and the dark-room, and a compact catalogue of his firm's (J. Lancaster & Son, Birmingham) manufactures. The hints and instructions which are given in the manual are thoroughly to the point, and really tell the amateur all that he should know to overcome the many difficulties which one meets in beginning photography. A proof of the great popularity of the manual is the fact that the present edition makes the fiftieth thousand. It is a prettily printed and illustrated book of 148 pages, and contains prices of the leading manufactures of the firm, aluminium mountings being a special feature.

## FALLOWFIELD'S PHOTOGRAPHIC ANNUAL.

MR. JONATHAN FALLOWFIELD, of 146 Charing Cross Road, W., has sent us an advance copy of the thirty-sixth issue of his well-known annual. It is astonishing how rapidly this volume grows in bulk, for it now comprises 592 pages and 806 illustrations. It is truly a "comprehensive catalogue of photographic materials, chemicals, and apparatus," for it gives particulars, prices, and, in most cases, illustrations of every conceivable requisite for amateur and professional photographers, and the fact that the goods of all the leading manufacturers are included gives the catalogue a unique value to chemists who stock photographic apparatus. The "Annual" is very well put together, shows here and there originality in method, and is well worth the twelve penny stamps for which a copy will be sent to any who apply for it. We should add that the "Annual" contains instructions for developing all the leading plates and printing papers, and this section will be specially appreciated by chemists.

## SHEW'S POCKET AND HAND CAMERAS.

MESSRS. T. F. SHEW & Co have had wonderful success with their "Eclipse" folding hand-camera, and, in order to meet present-day requirements, the firm have put upon the market a guinea "Pocket Camera," made much upon the lines of the "Eclipse." The lens, fitted with instantaneous shutter, works at F. 11. Each camera is sent out with three double backs, the whole weighing only 14 oz. The "Repeatograph" is a camera of the magazine type. The changing of the plates is exceedingly simple, one movement changing the plate and re-setting the shutter. No metal sheaths are used, and the plate, after exposure, falls into a well, and can be easily taken out.

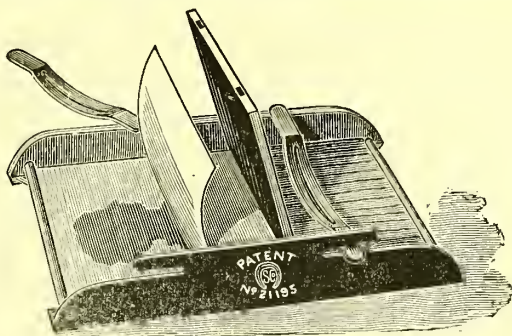
## CARAVAN PHOTOGRAPHY.

THE Duke of Newcastle and Mr. Gamhier Bolton, F.Z.S., have this week taken the road at Tunbridge Wells in the caravan "Bohemian" with the intention of making an extended tour with the camera. The caravan is most complete, both as a residence on wheels and a photographic atelier.

## THE "DAISY" METAL PRINTING-FRAME.

THIS frame is of metal, very compact, light, and will stand rough usage; the negative is almost flush with the front of the frame, so that no shadows fall upon the print.

Being of metal, it does not warp or swell, as is too often the case with ordinary printing-frames. The weight is something less than half, and the frame measures considerably



less. The "Daisy" frames are manufactured by Messrs. T. F. Shew & Co., whose showrooms at Newman Street, Oxford Street, W., are worth a visit.

## TWO NEW DEVELOPERS.

MR. T. HAUFF, of Stuttgart, has introduced two new alkaline developers, which are said to give excellent results when used with either gelatino-bromide plates or paper. The first is "Metol"—a salt of mono-methyl-para-amido-meta-cresol. The following formulae are suggested by Dr. Eder:—

*Metol-Potash Developer.*

A.		Parts
Distilled water .. ..	1,000	
Neutral sodium sulphite .. ..	100	
Metol .. ..	10	

B.		Parts
Distilled water .. ..	1,000	
Carbonate of potash .. ..	100	

For use mix 3 parts of A with 1 part of B. The developer will keep, or it can be used at once. For slow development, use 6 parts of A, 1 part of B, and add 2 parts of water. The "Metol" developer only loses slightly in activity by developing several plates in the same solution; the old developer acts less energetically, but may be used for over-exposed plates. Another form in which "Metol" may be used with good effect is the following:—

*Metol-Soda Developer.*

A.		Parts
Distilled water .. ..	1,000	
Sodium sulphite (crystal) .. ..	100	
Metol .. ..	10	

B.		Parts
Distilled water .. ..	1,000	
Carbonate of soda (pure crystal) .. ..	100	

For use mix in equal parts. The developer keeps well. The second new developing substance is "Amidol," which, mixed with sodium sulphite, gives a developer of great energy, and exerts its full power without the addition of alkaline carbonate or caustic. The following formula acts as an excellent developer:—

		Parts
Amidol .. ..	5	
Sodium sulphite .. ..	50	
Water .. ..	1,000	

Dr. Eder, writing upon it, says: "This develops the image on gelatino-bromide of silver considerably quicker than pyro. and soda; the image quickly gains density in developing, and shows beautiful half tones. There is not the slightest tendency to the formation of fog or histers. The plates attain a sensitiveness in this developer which cannot be exceeded with any of the other known developing substances."



## LEAVES FROM A RECIPE-BOOK.



COUNTER-PRESCRIBING in the pharmacy must not include such diagnostic operations as those exhibited herewith. The pulse will always have an honorable association with pharmacy, in that the first man to clearly appreciate the value of its variations, and to use them intelligently in the practice of medicine, was the first President of the Pharmaceutical Society of Ireland—Sir Dominic John Corrigan, M.D. This noted Irishman's studies of the pulse have had a universal recognition, and there are even some pecu-

liar beats which carry his name with them. The condition of the tongue as an aid to diagnosis is an old landmark in medicine, although it is only within recent years that anything like precision in its characters has been demonstrated. These things are, however, of little moment to many of those who read these lines, for woe betide them if they venture to look at a tongue or feel a pulse across their counter! Modern law regards such things with equanimity, for while the Medical Acts safeguard the qualifications and titles of educated medical practitioners, they avoid reference to anything approaching counter-prescribing, and make no pretence to prohibiting it. It is the time-worn Apothecaries Act which catches all who venture to poach on the medical practitioner's ground, and this Act applies solely to England and Wales. The public are not so cognisant of its provisions as chemists are, consequently in their innocence they daily lay many a pitfall for the obliging medicine-man in seeking remedies for common complaints. The most legitimate manner of meeting such demands is to have in stock put-up specialities of well-tried value, and general rather than specific in their effects. In a former selection from the recipe-book (THE CHEMIST AND DRUGGIST, January 30) we gave some excellent formulæ for well-tried remedies, and to these we now add some specialities for other classes of complaints.

## Diarrhoea-mixtures.

(1)

Tinct. opii .. .. .	3iss.
„ cinnamomi comp. .. .. .	3iij.
„ kino .. .. .	3iv.
Mist. cretæ ad .. .. .	3viij.

M.

[Label.]

## Compound Chalk Mixture.

For adults only.

*Dose.*—A tablespoonful every hour for three doses, then every four hours while the diarrhoea lasts.

This is a prescription of the late Dr. Bickersteth's, Liverpool. It is a simple and effectual remedy in cases of summer bowel-complaint.

(2)

Pulv. cretæ aromat. .. .. .	3ij. 9j.
„ rhei .. .. .	3ij.
„ zingiberis .. .. .	3j.
Magnes. carbonatis pond. .. .. .	3j.
Sodæ bicarbonatis .. .. .	3j.
Ess. menthæ piperitæ .. .. .	3ij.
Tinct. opii .. .. .	℥xl.
„ catechu .. .. .	3ij.
Spt. ammon. arom. .. .. .	3ij.
Tinct. kino .. .. .	3ij.
Spt. camphoræ .. .. .	3j.
„ chloroformi .. .. .	3j.
Tinct. cardam. co. .. .. .	3ij.
Aquæ .. .. .	3ix.

Mix all the powders together and make into a thin paste with the water, gradually adding more water and the spirituous ingredients to form a uniform mixture.

*Dose for Adults.*—Three tablespoonfuls to be taken on the first appearance of the disorder, and half the quantity to be repeated every three hours, if necessary.

*Dose for Children.*—Between 10 and 12 years of age, a tablespoonful should be given every three or four hours; between 3 and 6 years, a dessertspoonful every three or four hours, mixed with a small quantity of water slightly sweetened.

From the length of this recipe it will be judged that it is an old one, and although it does not conform with modern ideas of prescribing, it is a good remedy, especially correcting the fermentative condition in the lower bowel, which is a prevailing cause of bowel-complaint. The mixture has been sold at the following rates: 4-oz. bottles, 1s. 6d.; 6-oz., 2s.; and 8-oz., 2s. 6d.

## Hop Bitters.

Glycerini .. .. .	3iv.
Spt. vini rectificati .. .. .	3iij.
Tinct. podophyllini ammon. .. .. .	3vi.
„ gentianæ co. .. .. .	3vi.
Succi taraxaci .. .. .	3iv.
Inf. lupuli concentr. .. .. .	3vi.
„ calumbæ concentr. .. .. .	3iv.
„ senegæ concentr. .. .. .	3ij.
Aquæ ad .. .. .	cong. ss.

Mix in the above order, set aside for twelve hours, and filter through carbonate of magnesia.

*Dose.*—One or two tablespoonfuls twice or three times a day before meals.

A nice preparation, possessing veritable hepatic and tonic properties. It has sold well in 8-oz. bottles at 1s. 6d., and 16 oz. 2s. 9d.

## Itch ointment.

(Suitable for cutaneous eruptions generally.)

Hydrargyri perchloridi .. .. .	gr. xvj.
Pulv. ammonii chloridi .. .. .	gr. xvj.
Hydrargyri ammoniati .. .. .	3ij.
Plumbi acetatis .. .. .	3ij.
Sulphur. præcipitat. .. .. .	3ij.
Hydrarg. sulphurat. .. .. .	q.s.
Adipis benzoati .. .. .	3xvj.

Triturate the powders together with sufficient vermillion (3j.) to impart a pink tint to the ointment, then work in the benzoated lard gradually to produce a smooth preparation. Perfume with English oil of lavender and ess. bouquet.

“To be applied at bedtime, and after washing in the morning.”

Two-ounce pots of this retail at 1s. It is a good application for many skin-disorders, such as eruptions on the forehead and is a certain cure for itch.

## Scurvy ointment.

Zinci oxidi .. .. .	3j.
Hydrarg. sulphurat. .. .. .	gr. v.
„ ammoniat. .. .. .	gr. xv.
„ subchlor. .. .. .	3ss.
Adipis benzoat. .. .. .	3j.

Mix intimately.

“To be applied morning and evening.”

## Ointment for Sore Nipples.

Tannin .. .. .	3j.
Bi-muthi subnit. .. .. .	3ij.
Vase lini .. .. .	3xxx.

Mix intimately.

“The nipples to be well smeared with this, and kept so while the child is not nursing.”

## VETERINARY MEDICINES.

There are few things which catch the eye of average horsey men so quickly as a good pedigree. Most of them can rattle off the forebears of a horse as “pat” as the latest music-hall ditty. If any man amongst them has a recipe, ten to one it has a pedigree also. He had it from Bill Jones, who had it from Lord Gumboll's trainer, and Lord Gumboll got it from the Duke of Wellington's vet., or something of that sort. The first formula, which we take from



the veterinary section of the recipe-book is a "card" of that kind. It is for the celebrated

#### Newmarket Physio-paste.

The note appended to it sets forth that "this paste was supplied forty years ago to the leading trainers and turfites—viz., the late John Scott, 'the Wizard of the North' in racing circles, the late Colonel Peel, Count Batthyany, the late Marquis of Exeter's trainer, the late John Day (Lord Palmerston's trainer), Jem Robinson (the celebrated jockey), Frank Battlis, 'Nat' (Colonel Peel's jockey), Sam Rogers, Job Marron (the rider of Teddington), and many others." There is a fortune in the recommendation, used with due discrimination, and the recipe is a good one too. It is this:—

Aloes barbadensis .. .. .	℥xiiijss.
Saponis communis .. .. .	℥ivss.
Potassæ carbonatis .. .. .	℥xviij.
Ol. anisi .. .. .	℥vj.
Aquæ .. .. .	℥xxx.

Cut the soap into small shreds and put into a pan with the water. Heat and when thoroughly melted and quite smooth add the carbonate of potash and the aloes. Let it simmer for some time, stirring frequently until the aloes is dissolved. If allowed to boil, the mass will come over before melted. Lastly add the oil of anise, and stir it well in.

A small piece of the mass taken out before the anise is added, and cooled on a slab, will tell whether the paste has been brought to a proper consistence or not. Twelve drachms of the mass contains 8 drachms of aloes. The paste used to be supplied to trainers in 3-lb., 4-lb., and 7-lb. tins. There is no reason why it should not be sold as balls.

#### Tonic balls for Horses.

Pulv. cinchonæ .. .. .	℥viiij.
Pulv. gentianæ .. .. .	℥iv.
Pulv. zingiberis .. .. .	℥j.
Mellis .. .. .	q.s.

Mix the powders, and make into a mass with the honey. Divide into twenty balls.

A ball may be given morning and evening.

#### Worm-balls for Horses.

Pulv. antim. tart. .. .. .	℥iv.
" jalapæ .. .. .	℥ss.
" zingiberis .. .. .	℥ij.
" aloes barbad. .. .. .	℥ij.
" sapon. hispan. .. .. .	℥ss.
Ol. caryophylli .. .. .	℥ss.
Syrupi simplicis .. .. .	℥j.
Mucil. tragacanth. .. .. .	℥ss.

Make a mass, and divide into 1-oz. balls.

Directions: Give a ball after a very light meal at night, repeating in two or three days if necessary. A tonic-ball should be given once a week or else a tablespoonful of tonic and condition powder every other day to horses which are subject to worms.

#### Cough-balls for Horses.

Pulv. ammoniaci .. .. .	℥iiij.
" scillæ .. .. .	℥j.
" camphoræ .. .. .	℥j.
" zingiberis .. .. .	℥j.
" sapon. hispan. .. .. .	℥ij.
Potassæ nitrat. .. .. .	℥ij.
Syrup. .. .. .	q.s.

Make into a ball.

"One ball to be given twice daily."

#### Lotion for Grease in Horses' Heels.

Pulv. aluminis .. .. .	℥j.
Acid. sulph. dil. .. .. .	℥j.
Aquæ ad .. .. .	℥xxx.

M.

"To be used frequently."

#### Stopping for Horses' Heels.

Stockholm tar .. .. .	℥viiij.
Tallow .. .. .	℥viiij.
Lard .. .. .	℥viiij.
Beeswax .. .. .	℥ij.

Melt the last three ingredients, then add the tar, and stir up well.

#### Worm powders for Horses.

Sulphur. nigri .. .. .	℥j.
Pulv. antim. tart. .. .. .	℥j.
Bol. armen. .. .. .	℥j.

Mix thoroughly in a mortar.

Directions: To be given after a very light mash or other meal. For ponies, a half to two-thirds of the powder is sufficient. A physio-ball should be given next morning.

One powder, 8*℥*; three, 1*s*. 9*℥*.

#### Diuretic or Farcy Balls.

Resinæ flavæ .. .. .	℥ij.
Potassæ nitrat. .. .. .	℥viiij.
Saponis hispan. .. .. .	℥viiij.
Syrupi simplicis .. .. .	q.s.

Make a mass, and divide into 5*x*. balls.

These have sold at 5*s*. a dozen. They are a good and efficacious medicine.

#### Stimulating White Liniment

(for Cattle).

Ol. ricini .. .. .	℥ij.
Ol. rapii .. .. .	℥ij.
Ol. terebinthæ .. .. .	℥ij.

Shake well, and add—

Liq. ammoniæ fort. .. .. .	℥iiij.
Aquæ .. .. .	℥iiij.

Shake vigorously again and for some time.

An excellent liniment, to be used as other popular preparations of the same nature.

#### Mixture for Ewes after Lambing.

Tinct. opii .. .. .	℥ss.
Æther. rectificat. .. .. .	℥ss.
Tinct. lavand. co. .. .. .	℥vj.

M.

Directions: Three tablespoonfuls mixed with a teacupful of water to be given for a dose.

#### Distemper-balls for Dogs.

Antimon. tart. .. .. .	gr. ij.
Hydrarg. subchlorid. .. .. .	gr. xviiij.
Pulv. jalapæ .. .. .	℥j.

Make a mass with glycerine of tragacanth, and divide into six balls, or twelve balls if for dogs under six months.

[Label.]

#### Distemper-balls for Dogs.

Prepared from a Newmarket Recipe.

Give one ball every morning. The dog must be kept shut up, so as to prevent infection of other dogs.

#### Balls for Red Mange in Dogs.

Hydrarg. subchlor. .. .. .	gr. vj.
Pulv. jalapæ .. .. .	gr. vj.
Antim. tart. .. .. .	gr. ij.
Glycer. tragacanth. .. .. .	q.s.

Mass, and divide into four balls.

"Give one ball every morning."

#### Lotion for Red Mange.

Sulphur. vivum .. .. .	℥ss.
Turpentine .. .. .	℥j.
Train oil .. .. .	℥iiij.

Mix.

"To be applied to the parts several times a day."

#### Mange-ointment for Dogs.

Sulphur. nig. .. .. .	℥ij.
P. hellebor. alb. .. .. .	℥vj.
Adipis .. .. .	℥iv.
Ol. olivæ .. .. .	q.s.

Make an ointment.

"To be used frequently."



## DECEIT AND FRAUD.

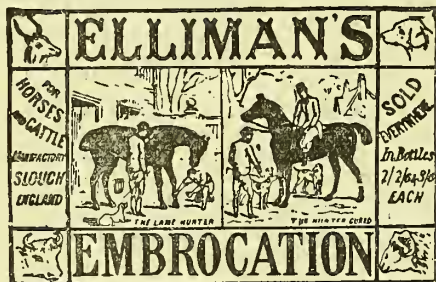
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The "Sanitas" Company, Limited, having ascertained that a Chemist has been selling a disinfecting fluid in bottles, wrapped to imitate in colour and effect the 1/- bottles of their Fluid, respectfully request the trade to kindly furnish them, in confidence, with the names and addresses of all persons so offending, or passing off goods made by themselves and supplied when executing orders for "Sanitas" preparations, so that immediate proceedings may be taken against parties guilty of such contemptible dishonesty.

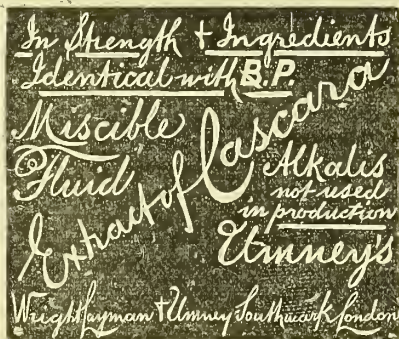
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"A very elegant preparation of this drug."  
"Superior to anything yet introduced."  
—Extracts from Letters.  
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FOR JULY.

See page 48 (bottom folio).

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Editorial Comments.

THE PATENT-MEDICINE TRADE.

It will be observed that we are favoured this week with a communication from that interesting body "The Association of Owners of Proprietary Medicines," which we print with pleasure. This Association has not been particularly obtrusive, and though most of us were aware of the existence of some such body, we have always had, and have still, but vague notions of its constitution and labours. The Association has, we believe, been in existence a great many years, and though reluctant to assume a militant attitude, is generally believed to be well provided with the sinews of war. However that may be, we are certainly right in asserting that the Association, if select and modest, is influential and determined. The letter which we now publish indicates that it is putting its back against the wall.

We can understand the feeling of soreness with which the patent-medicine makers contemplate the threatened attack on their interests by the Pharmaceutical Society. We presume they have some definite evidence as the basis of their



reference to "an engagement entered into by which, in consideration of this Association not objecting to the Pharmacy Act, 1868, they [the Pharmaceutical Council] expressly, and as absolutely as possible, agreed that *bona-fide* stamped medicines, known then and now as 'patent medicines,' should be exempt from the operation of the Act." It was a curious engagement to enter into, and we must say that the patent-medicine proprietors showed less than their usual acuteness in accepting an exemption clause so loosely worded as that on which they now want to rely. But it is undoubtedly the fact that there was a general sort of understanding in the trade, though not perhaps in the Legislature, that medicines such as those alluded to should be unaffected by the Act. It does not seem that the question of the meaning of the clause in question was raised at all in Parliament, and it is quite conceivable that the members who gave careful consideration to the Act may have argued to themselves that the exemption was reasonable, understanding, as they would do, the term "patent medicine" in its strict sense. For, they might have thought, the composition of such a preparation being revealed to the public, and its preparation being protected in consideration of heavy fees, there was less necessity, and it would be hardly fair, to put special restrictions on its sale.

However this may be, the question is, we suppose, to be fought out, and we are glad to hear that the Association of Owners of Proprietary Medicines intends to contest cases thoroughly. We shall, at least, get definite interpretations of the Act, and the public and unregistered traders will learn with more certainty what is really the law on the subject.

With this letter from the Association of Owners of Proprietary Medicines, we print another from "One of the Large Proprietors" individually. We can testify to the justice of this signature, though we understand the preference shown by this proprietor for anonymity. His letter is, however, a sign of the times. We do not suppose his dream of the Pharmaceutical Council negotiating with mere traders is realisable. Apart from the fact of their dignity, it must be remembered that they would have no right to tarter away their statutory duties under the Pharmacy Act for any trade advantage. Neither should we regard with anything like the same hopefulness as our correspondent manifests the parliamentary prospects of a Bill such as he sketches. But we confess we do not perceive that either the Pharmaceutical Council's support or a new Act of Parliament is essential to the scheme which the proprietor aims at as his ultimate purpose. He wants to ensure the favour of retailers of his medicines. He does not think it possible to legally prevent others than chemists from selling such articles, and on this point we agree with him. But he looks on chemists as the natural and the best agents for such articles, and is evidently willing to take some risk to secure their sympathy and interest. Like the majority of the manufacturers, he believes it would be to the benefit of his own business if he could make it better worth the while of chemists to deal in his articles. Then why not step boldly out on the road which has already been partially cleared by several of the very good friends of the trade? We have now some half-dozen firms who have pioneered in this direction. They have not grudged a good deal of personal trouble, and they have met with many discouragements in their efforts to establish an exclusive system of trading which shall ensure, at least, a fair profit to everyone who shall handle their goods. And the reports so far from them indicate that they are satisfied with the general results. The way is much easier now for those who think fit to walk therein, and the trade—and, to a large extent, even the cutters—are ready to

welcome any fairly-constructed system which shall lift particular articles out of the miserable slough into which they have sunk.

## INTERNATIONAL PHARMACEUTICAL QUALIFICATION.

THE overthrow of the Irish pharmaceutical coach, which we reported last week, is worthy of some consideration. The Council of the Irish Pharmaceutical Society have manifested a very creditable determination to make their Act known and respected by all whom it may concern, and until they ventured on this Cork case they seem to have always secured both public and magisterial sympathy. Some of us at a distance, whose knowledge of Ireland and Irish affairs is acquired from the daily papers, from speeches in Parliament, and from travellers' tales, might have expected this latest action to have been one of the most popular which the Council could have undertaken. We have a suspicion that the Council themselves shared that anticipation. There, in the capital of Nationalist Ireland, a gentleman with a Scotch name, and furnished with only a British certificate, has been carrying on a pharmaceutical business ever since the Pharmacy Act of 1875 was passed—before that date, we believe. The Cork people, regardless of what was expected of them, gave all their sympathy to the invading Saxon, and reserved their indignation for the Society which was fighting the battle of Ireland for the Irish. There were scathing letters in the newspapers, the magistrates made no secret of their partisanship, and when the prosecution was defeated on a technical point, one of them expressed his pleasure from the bench.

The point taken for the defence, and which proved successful, was that as the prosecuting solicitor could not produce his authority under seal to represent the Society, he was by an old Act of James I. concerning corporations debarred from proceeding, and the case became one in which there was no prosecutor. The Recorder thereupon dismissed the summons. The defence was, as the counsel who raised it admitted, a purely technical one, justified by the fact that the prosecution was also a technical one. The Council in Dublin have some hopes of getting the decision on this point of law reversed in the superior court, in which case the Recorder would have to hear the case on its merits. But at present the Society has got the worst of the contest.

We confess to an inclination to assume the attitude of Mr. Facing-both-Ways in this interesting dispute. It certainly seems hard that a gentleman who has established a prosperous business, who has gone in and out among his fellow-citizens for some twenty years or more, and has evidently won their respect, and whose actual qualification to conduct his business is not for a moment questioned even by his antagonists, should be ordered to shut up his pharmacy or dispose of it, under an Act which has not been set in motion against him all these seventeen years that it has been in existence. The Council, on the other hand, may most reasonably urge that they have an Act of Parliament entrusted to them for execution, and that Act says as plainly as language can express it that it shall be unlawful for any person other than a person registered under the Act to keep open shop for compounding poisons or medical prescriptions. How can they differentiate between persons? If they let two or three British pharmaceutical chemists carry on their business in Ireland they open the door for two or three hundred, and they might as well be without their Act.

The Select Committee of the House of Commons which in 1874 considered the condition of Irish pharmacy reported in



favour of a Society for Ireland to be independent of that of Great Britain, but that there should be a common register, and that Licentiates of each Society should have equal rights and privileges in the three kingdoms. And the Irish Pharmacy Bill, as introduced by that eminent Home Ruler Sir Michael Hicks-Beach, provided expressly for such reciprocity as had been indicated by the Committee. This provision was only abandoned in consequence of the determined opposition of the Pharmaceutical Society of Great Britain. As we have already pointed out, a person qualified in Ireland has been fined in England for infringement of the Pharmacy Act of Great Britain.

That a difficulty thus created by Act of Parliament to gratify the jealousy of a few individuals is intrinsically an absurd one, is obvious. And as the world grows older and narrower it will have to be removed. At present all British colonies where special pharmacy laws are in force admit for registration the mother-country certificates, and we believe in practice the Irish certificate is similarly received throughout Greater Britain. But the colonial certificates, though all of them guarantee a fair competency, and some of them involve severer conditions than those in force here, are none of them valid in any degree within the United Kingdom. A Colonial pharmacist who has learned his business thoroughly and has passed all the examinations of his country can only transfer himself home, as a pharmacist, by going through all the examinations and formalities again. The colonies will certainly not stand that sort of all-on-one-side reciprocity for ever. Even with regard to French, German, and American diplomas it is likely enough that some mutual arrangement will be come to some day. The Medical Act of 1886 makes certain provisions for the registration in the United Kingdom of foreign and colonial practitioners, and it would be an undoubted convenience, and no possible injury, if some mutual arrangement were come to in regard to the pharmaceutical registers. The subject is not, perhaps, ripe for action yet, but the case of the Pharmaceutical Society of Ireland *v.* Selkirk should certainly have the effect of developing its maturity.

### THE ITALIAN PHARMACOPŒIA.

It has long been a reproach to Italian pharmacy that it was without a recognised standard medicine-book for the guidance of physicians and pharmacists. Although in one sense amongst the oldest of the nations of Europe, it is the youngest amongst the first-rate Powers, and to that fact we ought probably to attribute the singular circumstance that its first official Pharmacopœia should only appear at the end of the nineteenth century. But while there has been no uniform standard for the country, Italy has not been without its Pharmacopœias in recent times. Indeed, it is inconceivable how a country with about 11,000 licensed pharmacies could get along without some regulated methods for preparing medicines. What is by courtesy called the Sardinian Pharmacopœia ("Tarif de Pharmacie pour les Etats Sardes," published at Turin about forty years ago) was recognised in a large part of the country. Tuscany had a Pharmacopœia of its own, which was in use until a very recent date, was taken as the basis of the new publication, and was also followed in the Papal States. The two Sicilies had a Pharmacopœia to themselves, and all over Italy the French Codex was almost as well known as it is in France. It was about six years ago that the resolution was taken to compile a book which should replace the many obsolete and private formularies which were in use, but not until 1888 did the matter take definite shape, or assume a form that was hopeful of completion, and every year since we have heard that

the book was ready for publication. At first it was expected that the Pharmacopœia would not have official sanction, but happily that expectation has not been fulfilled, for the volume appears as the "Farmacopea Ufficiale del Regno d'Italia." A committee of seven, presided over by Professor J. Moleschott, have had the matter in charge, and on May 3 this work received the official sanction of Home-Secretary Nicotera. It is a handsome octavo volume of 443 pages, of which 372 are devoted to what is commonly called the "text," 26 tables constituting an appendix. The Pharmacopœia is printed in the Italian language, and even the chief heads of the articles are given therein, the sub-heads appearing in Latin, with ample provision of Italian synonyms. This arrangement is not altogether satisfactory for outsiders, Latin names being decidedly preferable to the vernacular for the chief titles. As it is, however, the Pharmacopœia follows the English and French styles in these chief titles; thus, bromide of potassium appears under "Bromuro di potassio," whereas the commoner continental plan is to place the name of the base first—*e.g.*, Kalium bromatum. There are peculiarities about the nomenclature, in consequence of the vernacular groupings; but on the whole the names are consistent, and in accordance with the usage of the country, which is undoubtedly wise in a first authoritative Pharmacopœia; but in future editions it would be an improvement to make the Latin names the chief titles, to reject the word "gomma," which is applied to such drugs as ammoniacum, and generally to equalise the groups of galenicals under specific names, bringing ointments and pomades together, instead of keeping them in two groups as at present. The choice of medicines which is given is distinctly liberal, there being 597 articles, including many that are obsolete in other countries and a good selection of new remedies. Amongst the latter, for example, are acetanilide, antipyrin, apomorphine hydrochlorate, cocaine hydrochlorate, guaiaicol, ichthyol, iodol, lanolin, mannite, menthol, sulphonal, salol, and many others more or less new. It is apparent that great care has been exercised in drafting the characters and tests of the medicines; indeed, the Pharmacopœia is distinctly in advance of the British regarding the potency of the more active drugs. For example, belladonna root and leaves should yield about 0.5 per cent. of hyoscyamine; colchicum-corm should yield 0.08 to 0.2 per cent., and the seeds 0.2 to 0.4 per cent. of colchicine, and dried aconite-root should contain from 0.2 to 0.8 per cent. of aconitine; cinchona-bark (Calisaya, Ledgeriana, and Succirubra are recognised) should yield 5 per cent. of total alkaloids, of which at least  $1\frac{1}{2}$  per cent. must be quinine determined by Kerner's method; and opium, when estimated by the Flückiger process, should yield 10 per cent. of morphine, while it should contain on the average, only 10 per cent. of moisture. Considerable care is also exercised in fixing standards for essential and fixed oils; in the case of the former there is a table of specific gravities and boiling-points, and the tests for the latter include specific gravities, congealing-points, and iodine absorption rates. The ash and resin content of many drugs are declared, while the purity of chemical substances is liberally provided for by appropriate chemical tests and assays, and such physical references as specific gravities, melting-points, and boiling-points. In this connection we may note that the melting-points of alkaloids are amongst the criteria of purity. This is an advance upon British ideas and even American; but the presence of Vitali on the committee probably accounts for it, although other continental Pharmacopœias have also adopted similar tests for alkaloids. The appendix contains a large number of useful data in tabular form, such as atomic weights, strengths of acids and alkali solutions,



alcohol tables, ratios of solubility, reagents and volumetric solutions, maximum doses, &c. In the text there are indicated 124 medicines which every public pharmacy must have in stock, and in the appendix there are further regulations regarding domestic remedies and the storage and sale of poisons. From this glance at the main features of the *Pharmacopœia*, it is evident that it is a compilation which does the committee credit, and considering the legislative reforms which Italian pharmacy has undergone during the past seven years the excellence of the volume is no more than could have been expected. In Italy there are two grades of pharmacists—the unadorned and the doctor grades. Both are university-trained men, the former spending four and the latter five years in professional studies, the last year in each case being spent in a pharmacy, the longer first period being purely collegiate.

### HALF-PRICE CLOSED LETTER COMPANY.

We have had numerous letters on the subject of the above Company from correspondents who have taken 10% debentures, some having paid the full amount, and others having only paid 1% deposit or something on account. The latter are now being pressed for payment of the balance they owe, and some of them have asked us if they are bound to pay the sums demanded.

The Company, through their managers, appear to have made certain statements during the negotiations for taking the debentures, and if these statements are not true they might amount to misrepresentation and avoid the contract. Many chemists complain that, after payment of their money for the debenture, or the requisite deposit, they cannot, after repeated applications, get any envelopes to sell, and that their agency has been a mere barren appointment.

In the formal documents which are alleged to constitute the agreement to take the debenture there is nothing said on the part of the Company that they will supply any envelopes; but we think that the whole of the correspondence would have to be read in accordance with the decision of the House of Lords in *Hussey v. Horne-Payne* (4 App. Ca. 311). If this is so, the case would appear to fall under the head of a case recently decided by the Court of Appeal—*Turner v. Goldsmith* (1891, 1 Q.B. 544). This latter case gives the agent a right of action against his principal in case the principal fails to provide the agent with the necessary materials for carrying on the agency. Assuming, for the sake of argument, that the alleged default can be substantiated, this would appear to give those who have paid in full a right of action for damages for breach of contract, and to those who are still the holders of the balance claimed a right of set-off on the same grounds.

There is another possible ground of action and defence, too, that may avail, and that is, if it can be maintained that the company's conduct shows an intention on the part of the company to repudiate the contract. There was a case of this kind reported in the *Times* of last week, *Booth v. Bowron* (8 T. R. 641), and there are numerous similar cases.

We have, of course, only before us the statement of one side, and it is difficult to say whether those who have not paid the balance on their debentures can successfully resist payment, but it might be worth while to test the matter. It is no answer, however, to an action by a company on a contract to take shares or debentures to say that it is not a successful concern. But in this case it is alleged that the company have not carried out their share of the bargain, unless profuse apologies and promises can be taken as such.

The company, on the other hand, write saying that they are doing a flourishing business, and among the letters received by us it is right to say that some are from chemists who appear not to be dissatisfied.

If there is delay in payment of interest, and the debenture-holders have duly forwarded their coupons, they can, of course, sue the company.

If any debenture-holders wish to take united action in this matter, and will advise us to that effect, we will put them in communication, but we cannot take further action ourselves.

### COMMENTARY.

**FLAME OF BURNING NITROGEN.**—Mr. W. Crookes explains in the *Chemical News* that in the spectroscope the flame of nitrogen shows no lines, the spectrum being faint and continuous. The temperature is a little higher than that of a good blowpipe-flame, easily melting fine platinum wire. The hot gases rising from a flame have a strong odour of nitrous acid, and when it is produced in a closed globe, the interior rapidly fills with red gases.

**ORIGIN OF FLUID EXTRACTS.**—Says Professor Remington in his work on pharmacy, "fluid extracts may be justly called 'American preparations'"—and so they are, for the U.S. *Pharmacopœia* gave formulæ for them as early as 1850, but it appears from the *Pharmaceutical Review* that the credit for their manufacture is due to England. Mr. Charles Ellis, of Philadelphia, in an article giving a formula for fluid extract of senna, read before the Philadelphia College of Pharmacy, November 25, 1834, used these words:—"A class of pharmaceutical preparations has, within a few years past, been extensively introduced into use in England, and to a limited extent in this country, under the name of concentrated essences or fluid extracts." It was at least two years later before they began to find a real place in American pharmacy, and since then they have developed so rapidly that people have got to think that the States deserve all the credit for producing and perfecting them.

**THE NUTMEG GENUS.**—Ten years ago, less than a hundred species of *Myristica* were described, but Dr. Warburg, who is at present at Kew engaged on a monograph of the order, estimates the number now in herbaria at about two hundred. This great augmentation is almost wholly from discoveries in the Malayan Peninsula and Archipelago, New Guinea, and Eastern Polynesia. Dr. King, in his "Annals of the Calcutta Botanic Garden," abstains from any attempt to trace the geographical distribution of the species, on the ground that he believes many yet remained to be discovered. But on running through his work we find (says Mr. Botting Hemsley, in *Nature*) that about fifty-four of his sixty-eight species are from the Malayan region, eight from the Deccan and Ceylon, and about six from the Assam and Chitagon region, only two apparently being found as far westward as Sikkim, in North India. Most of the new species are from Perak, a country exceedingly rich in endemic trees. Beyond the distribution indicated, there is one species in North Australia, and four each in Madagascar and Tropical Africa, and perhaps about forty or fifty in America, extending from South Brazil through the West Indies and Venezuela to Central America and South Mexico.

**MEDICINE FOR A WEAK HEART.**—Edinburgh medical circles are somewhat disturbed at present in regard to a question which was given at the final M.B. examination on



June 14. It was in prescription-writing, and was as follows:—

Prescribe for a case of weak heart, with anginous pain, a mixture containing tincture of strophanthus, strychnine, arsenic, and iodide of potassium.

We do not suppose that the teachers of the Edinburgh Medical School would sanction, from a therapeutic point of view, such a combination as is here indicated, but it was the pharmacy of the prescription which disturbed the equanimity of the examinees. They considered it a mess of incompatibles, and, through the "College Column" of a local evening paper, a protest was made against it. We presume that there is a bit of "catch" about the question, the object being to test the student's knowledge of what is good to give and what is not in cases of angina, but apart from that the question is a good test of the knowledge of prescribing. Although potassium iodide precipitates alkaloids, it does not do so in the presence of a large volume of water, and the medicines indicated can be sent out as a clear 8-oz. mixture (tablespoonful doses) containing medium doses of the remedies. Doubtless that fact is taught in the practical pharmacy class of the University, but, if not, the sooner "The Art of Dispensing" is used as a text-book there the better.

NEW JAPANESE PHARMACOPEIA.—The first Japanese Pharmacopœia of interest to Europeans was published in 1886, and came into force on July 1 of the year following. It was notable for its strong German characteristics—a fact which was admirably brought out by Dr. S. M. Suzuki, a Japanese medical practitioner, in a paper communicated to THE CHEMIST AND DRUGGIST of June 11, 1887. But the Pharmacopœia had not been long in force before its revision was resolved upon. A Commission, consisting of ten gentlemen, was appointed early in 1888, and from then until the end of 1890 they held eighty-three meetings. The work which they have revised has been published in Japanese characters; but, as in 1886, there is also a Latin translation of this. We gather from the *Apotheker Zeitung* that some slight changes have been made in nomenclature, which was formerly, in some respects, American in style, such as "Jaborandi" for "Folia Jaborandi." The latter form is now adopted, and generally this style is followed throughout the Pharmacopœia. Further attention has been given to reagents and tests, and standardisation has been adopted on the British Pharmacopœia lines, the strength of extractum opii being fixed at 13–15 per cent. of morphine, rux-vomica extract at 15 per cent. of alkaloids, and cinchona extract at 13 per cent. of alkaloids. Dry extracts are directed to be diluted with powdered liquorice. Japanese scopola-roct is introduced into the Pharmacopœia, and an extract of it is officialised. Strophanthus also finds recognition, and all tinctures have specific-gravity factors attached to them. When will the British Pharmacopœia follow that good example?

#### OIL OF LAUREL-LEAVES—BAYBERRY—OIL OF BAY—BAY-RUM.

By C. S. ASHTON.

ON page 43 of the current volume of THE CHEMIST AND DRUGGIST there is an interesting note on an essential oil of the leaves of *Laurus nobilis*, introduced by Messrs. W. J. Bush & Co. The note refers to the rarity of this product, and states that books of reference are silent on the subject. Some time afterwards I met with the following in Cooley's "Cyclopædia":—"Oil of Laurel—syn. oil of sweet-bay, ol. lauri volatile, ol. lauri essentielle, from either the berries or the leaves of *Laurus nobilis*, or sweet bay-tree.

Pale yellow, clear, odorous, aromatic, stimulant, and narcotic. Sp. gr. .871. The leaves yield fully  $\frac{3}{4}$  to 1 per cent." This made me curious to know whether there really were any specimens of the oil in the market besides this "novelty" of Messrs. Bush. So I made inquiries among the leading wholesale houses. Only one firm among those applied to could supply an oil distilled from the leaves, while one other was able to furnish an oil drawn from the berries. All the remaining houses assured me that the oil was not an article of commerce, one of them adding, "it could only be obtained by special distillation of the berries." It must therefore be admitted that, Cooley notwithstanding, the note is not far wrong in describing Messrs. Bush's oil as somewhat of a "curiosity."

The two samples which I obtained differ slightly from Messrs. Bush's oil, as well as from each other, both in odour and sp. gr., but all three unmistakably recall the familiar fragrance of the sweet bay-tree. In my opinion Messrs. Bush's new name for the oil is scarcely a happy one. Doubtless, the true "laurel" is *Laurus nobilis* (N.O. Lauracæ), but what is generally understood by that name is the common or cherry laurel (N.O. Rosacæ), which yields an oil similar to essential oil of bitter almonds; and by the term "oil of laurel-leaves" one would naturally suppose the latter to be meant. There already exists quite enough confusion in botanical nomenclature, and Messrs. Bush would have obviated the risk of mistake by styling their article "oil of bay laurel-leaves," or "ol. fol. Lauri nobilis."

But if there exists ambiguity in the case of the name "laurel," confusion is worse confounded over the name "bay." The "noble laurel" is known as the "bay-tree" wherever the English language is spoken, but in America there are a shrub and a tree, both called "bayberry," which are liable to be confounded, pharmaceutically, with the bay and with each other. The first is the wax-myrtle, *Myrica cerifera* (N.O. Myricacæ), whose fruit exudes the substance known as "myrtle-wax." The chemical term "myricin," used to describe the insoluble portion of beeswax, is hence derived. Unfortunately, the same term is applied by the eclectics to a powdered extractive prepared from the plant. Bayberry-bark is much esteemed for its stimulating and astringent properties by herbalists generally, and is an active ingredient in the "composition" powder and essence so popular in the Midlands and the North. Powdered bayberry is very apt to be mistaken for powdered bay-berries—pulv. bac. lauri.

The other bayberry referred to is the *Myrcia acris* (N.O. Myrtacæ) also known as *Myrtus acris*, *Pimenta acris*, and *Eugenia acris*, or wild clove (Gray). Here, again, the similarity of names often causes confusion—*myrcia* and *myrica* being so much alike. The myrcia is a handsome evergreen tree, indigenous to the West Indies, very closely resembling *Eugenia pimenta*, but distinguishable therefrom by its flower having five calyx lobes instead of four. It is from the leaves of this tree that the genuine "bay-rum" is distilled, though for many years the secret was undiscovered. The name "bay" was probably adopted rather as a blind than to indicate its real origin, for we do not hear of the name "bayberry" being applied to the tree till after it was found to be the source of bay-rum. The bay-laurel was long supposed to be the plant employed, but as far back as 1860 bay-rum was made "official" in the U.S. Pharmacopœia, where it was referred to as *spiritus myrciæ*—"a spirit obtained by distilling rum with the leaves of *Myrcia acris*." In the last edition of the U.S.P. (1883) a spirituous solution of the volatile oil (known in commerce as West Indian "oil of bay") is substituted for the distilled spirit. The following is the formula:—

Oil of myrcia..	..	..	..	1 fl. oz.
" orange-peel ..	..	..	..	40 minims
" pimento ..	..	..	..	25 "
Alcohol ..	..	..	..	4½ pints
Water..	..	..	..	3½ "

N.B.—Alcohol U.S.P. is rectified spirit of sp. gr. .820, containing 94 per cent. (volume) of absolute alcohol. The 16-oz. pint is that indicated.

It is claimed that the distilled spirit has a superior aroma. For my own part, having had the opportunity of comparing the U.S.P. formula with specimens of the original West Indian brands, I prefer the former.

It may not be generally known that bay-rum was intro-



duced as a perfume pure and simple, to be used—as I believe it still is in America—in the same ways as we employ eau-de-Cologne. Being a distillate, it was, of course, practically colourless, as is the U.S.P. formula. But in this country it is rarely heard of except as a hair-wash, and its colour is usually that of Jamaica rum.

It is remarkable, too, that though its real origin has been so long known there should be so many people who still believe it to be a preparation of the bay-laurel. The first and best-known English makers perpetrate the error. Their label reads: "American Bay-Rum, distilled from the leaves of the *Laurus nobilis*." This, by the way, is a colourless spirit. Other makers use an infusion or tincture of bay-laurel leaves with rum and water; others, again, add a little expressed oil of bay to a mixture of rum, spirit, and water; while I have heard of yet others who rub down ol. bac. lauri with magnesia and water, filter, and colour with burnt sugar! Then, again, there are chemists who, while using the volatile "oil of bay," or "oil of bay-leaf," imagine it to be the product of *Laurus nobilis*, especially when their drug-houses foster the illusion by labelling it "Ol. Lauri Essent.," as I have seen done in more than one case. But, however labelled, the oil which is universally supplied by the wholesale trade for making bay-rum is ol. myrciæ acris. This, of course, is the correct thing to use, and the majority of firms now label it by its real name.

Ol. myrciæ U.S. is officially described as "a brownish or dark-brown liquid of an aromatic, somewhat clove-like odour and spicy taste. Sp. gr. about 1.040. Soluble in its own weight of alcohol." The taste and aroma of all the trade samples that I have examined have answered this description, though the colour has varied (according to age) between light and dark amber, rather than brown. But the specific gravity in every case has fallen far short of the standard. Genuine oil of myrcia resembles the oils of cloves and pimento in being heavier than water. But all these specimens were lighter. Moreover, none of them was soluble in alcohol, thus proving conclusively their sophistication with fixed oil. Cooley (6th edition, page 267) drew attention years ago to the frequency and extent of the adulteration of this oil, and his strictures would appear to be as much warranted to day as they were then.

I believe most of the British supply hails from the West Indian Islands of St. Thomas and St. Kitts—Danish dependencies. If, then, we should be asked, "What is the state of Denmark?" we should be inclined to reply, "Rotten!"

Since the foregoing notes were written I have come across statements put forward two or three years ago by Messrs. Schimmel and others to the effect that the U.S.P. description of bay-oil is inaccurate. These investigators say that the oil distilled by themselves from leaves imported from St. Thomas is invariably lighter than water and insoluble in alcohol. If this be so, the above charges of falsification are unfounded. But it would be interesting to learn how these two sets of authorities have arrived at such different results. Can it be that the fruits yield an oil richer in eugenol, and consequently heavier, than that yielded by the leaves? If so, this may possibly account for the disparity in the figures given for the specific gravity. Then there remains the question of solubility. The persistent turbidity of commercial oil of myrcia in any proportion of absolute alcohol is an unusual feature for an essential oil to exhibit, and one would like to know to what constituent of the oil this peculiarity is due. It is to be hoped that the compilers of the U.S.P. will clear up these points in their next revision, and publish some reliable data on the subject.

#### AMERICAN PHARMACEUTICAL NEWS.

MR. W. R. WARNER, of pill fame, of Philadelphia, has left for England.

MR. J. H. STALLMAN, of Stallman & Fulton, arrived in New York, per steamer *Enus*, on June 19, having spent several months in looking after the European interest of his house.

MR. JUSTICE BEACH, of the Supreme Court of the State of New York, has rendered a decision supporting the claims of Keasley and Mattison to the exclusive right to use the

name "Bromo-caffeine." The case has been pending some two years.

MESSRS. MERCK & Co., of New York, having protested against the payment of 40-per-cent. duty on imported empty glass bottles, on the ground that the new tariff entitled them to entry at 1 cent per lb., the appraisers have admitted the correctness of their protest.

THE ECONOMICAL DRUG COMPANY is starting in Chicago to sell drugs at cut rates. The druggists of the city are retaliating by opening a shop next door to do the same thing at less—in fact, they will give the things for nothing, if necessary, and the wholesalers are to back them up.

DR. ROBERT W. GREENLEAF, who succeeded the late Dr. Pengra as Professor of Materia Medica and Botany in the Massachusetts College of Pharmacy, Boston, has sailed in the *Westernland* for Antwerp. He will devote the summer to studying methods of teaching, principally in Germany, returning *via* London.

THE NEW YORK COLLEGE OF PHARMACY has at last procured a site for the erection of the new college buildings. The location selected is on Sixty-ninth Street, between Ninth Avenue and the Boulevard, and is in the growing and more fashionable part of the city. The building will be begun as soon as the preliminaries can be arranged. Messrs. Fraser, of the Fraser Tablet Triturate Company, and S. W. Fairchild, of Fairchild Brothers & Foster, have been among the most active workers towards the erection of new buildings.

The newspapers keep standing headlines, "A Drug-clerk's Blunder," "Another Druggist's Error causes Death," &c., if one may judge from the facility and promiscuousness with which they use them. A young man in New York bought some oxalic acid this week, and gave it to a young girl for Rochelle salt. Though he claimed that he asked for Rochelle salt, the police justice, on the evidence heard, exonerated the druggist. Notwithstanding the fact that they announced the exoneration of the seller by the justice, the usual "blunder" and "mistake" headlines were used by the dailies in giving an account of the occurrence.

## REVIEWS

AND

### LITERARY NOTES:

#### *Aids to Health.*

THIS is the title of a rather clever illustrated descriptive price-list issued by Messrs. Gilbert & Hall, chemists, Bonnamouth. It is what we may call a speciality and surgical list, with many old things served up in a novel way along with lots of new ideas and novelties. The book shows excellent enterprise, and how profitable a thing it is to read THE CHEMIST AND DRUGGIST intelligently.

#### *Catalogue of the Hanbury Herbarium.*

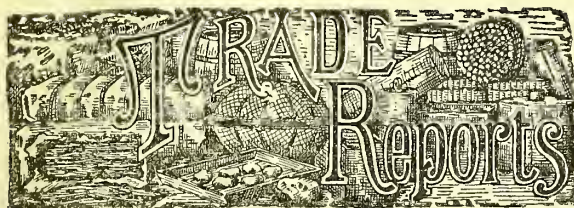
THE Pharmaceutical Society of Great Britain has published, and is presenting to its adherents, a catalogue of the pharmaceutical herbarium collected by the late Daniel Hanbury. The herbarium contains 610 distinct species of plants, but the actual number of specimens is far more than that; and very few of the specimens are without historic interest. Mr. E. M. Holmes, the curator, has made a good catalogue of the collection. It is not a mere compilation of Hanbury's notes, or the names strung together, but comment is added where the knowledge gained during the last sixteen years adds light to Hanbury's observations or opinions. The catalogue will be very useful to pharmacognosists.

"SCOPOMILINE" AND "GEORGE SANDFORD WEBB" are slips which we cut from a respected New York contemporary.









**Notice to Retail Buyers:**—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., June 30.

## The London Markets.

### Adulterated Gum Arabic.

At a recent meeting of the Philadelphia College of Pharmacy, Professor Maisch read a letter from a correspondent in Canada, who referred to a curious adulteration he had met with in a sample of acacia—namely, rock salt. The percentage was not stated. Professor Maisch said that the present source of gum arabic is further east than formerly—nearer the Red Sea; the old habitat being inaccessible. Chemically, gum senegal is identical with gum arabic, but physically the difference is quite marked. To make the former more closely resemble the latter, it has been the practice of some to wet gum senegal, and expose it to sufficient heat to cause fissuring, when it will more closely resemble true acacia.

### Servian Customs Tariff.

Amongst the changes which have recently been effected in the import duties of Servia the following may be noted:—Vegetable medicines generally, such as barks, seeds, leaves, resins, flowers, copaiba, manna, opium and camphor, acids and salts, mercurials, and animal products, such as cantharides and musk, are raised from 50f. to 100f. per 100 kilos.; sulphur, alum, soda, and other alkali products have been increased from 2f. to 8f. per 100 kilos.; mineral acids, arsenic, zinc white, and other dry substances of a similar nature rise from 5f. to 12f.; cochineal and indigo, with several other similar colours, are now to pay 80f. per 100 kilos.; they paid 50f. before. A considerable change has been effected in the oils and fats class of goods, all the rates being increased by two to five times what they were formerly; thus olive and seed oils will henceforth pay at the rate of 100f. per 100 kilos.; it used to be 20f.; waxes will pay the same as against 40f., and candles of paraffin, tallow, &c., will pay 150f.; crude petroleum is reduced to 140f., and the purified raised to 20f.

### New Portuguese Customs Duties.

The following are some of the new duties which are given in the tariff authorised on May 10:—Camphor 200 reis (10½d.) per kilo. (= 35½ oz.); cotton-seed, almond, and other seed oils, the same; essential oils, 750 reis (3s 3d.) per kilo.; nitrate of silver, 350 reis per kilo.; quinine salts, 2,000 reis (9s.) per kilo.; and chemical products generally will pay 13 per cent. *ad val.*

### Quinine from Cupreine.

The rapid disposal of cuprea-bark on Tuesday was doubtless due to the fact that the prices were low considering the quinine content of the bark; but, apart from that, the recent researches on the conversion of cupreine into quinine may have something to do with the renewed demand for the bark. These researches have resulted in the patent process formulated by a Paris firm, to which reference has recently been made in this journal. Whether this process can be

economically worked or not is doubtful, as sodium is employed in the process, as well as methyl bromide, which is not a particularly cheap article, and the use of these will determine the practicability of the process. In 3 10 kilos. of cupreine is treated with ½ kilo. of sodium, 30 kilos of methyl alcohol, and 1 kilo. of methyl bromide or an equivalent of a similar methyl compound. This mixture is heated for twelve hours at a temperature of 120° to 130° C.; then the alcohol is recovered by distillation. The result of this treatment of the cupreine is that a methyl group (CH<sub>3</sub>) is introduced into the cupreine, methyl cupreine being thus formed, and methyl cupreine is identical with quinine. The product can be combined with acids to form sulphate, hydrochlorate, &c., identical in appearance with the quinine salts obtained from cinchona-barks. We mention this matter as being one of scientific interest rather than commercial importance, for the profitable working of the process, should it ever be adopted on a commercial scale, will always require low-priced cuprea-bark.

### Manufacture of Castor Oil in Jamaica.

The director of the Botanic Gardens at Jamaica considers that the following letter shows that Jamaica can compete with India in this manufacture:—

You will remember the sample of castor oil I showed you in the exhibition. Only a few weeks ago I sold my first oil to the St. Cruz Ho-pital at the rate of 7½d. per lb., delivered in the hospital. The oil kept very well, which only shows that our castor-oil seeds, manufactured in the way you directed me, are as good as the East Indian ones, and much better than those grown in America. My oil was clearer than the hospital oil in Kingston, which Mr. Foster showed me.

CARL HINDERMANN.

But where is the competition? India can supply the oil at half the price.

**ACID (ACETIC).**—It is expected that slightly higher rates will rule by-and-by, and the demand for acetate of lime has improved in this anticipation, higher prices being obtained for both grey and brown acetate. The price for 25-per-cent. acid from this source is now 7½., in ton lots or more.

**ACID (CITRIC).**—This acid is still obtainable at last week's quotation.

**ANTIMONY (CRUDE)** is firmly quoted, and has been sold at 27½. Powdered black antimony and crocus are correspondingly dearer.

**BORAX** is firm at the last quotations, and boracic acid also remains firm at 24s.

**CAMPHOR.**—English refined in bell is now quoted at 1s. 6½d. to 1s. 7d., according to quantity, and the prices of other makes continue firmer.

**CINCHONA.**—The auctions on Tuesday were neither largely attended nor was the supply of bark quite up to the average, but it is seldom that one sees bidding so brisk and purchases so full as they were then. In consequence, some of the selling brokers exhibited a cheerful tone, and while some reckoned that the unit was a shade better, the general feeling was that it had advanced an eighth of a penny. The maximum touched was a unit of 1¼d. The total quantity of bark offered was 302,078 lbs., and of this 288,258 lbs. were disposed of publicly, but there were understandings between sellers and bidders regarding the balance of 13,820 lbs. The bark originated as follows:—

	Packages	Packages
	of which	833 were sold
East Indian cinchona..	838	664
Ceylon cinchona ..	672	220
Cuprea bark ..	285	206
South American cinchona ..	216	65
Java cinchona ..	65	
	2,076	1,993

**CUPREA BARK.**—The 285 bales have been lying in London for four years, and by this time have eaten their heads off. The selling broker reached the rostrum some time after his turn, and immediately the bidding became brisk. The prices obtained were 1¼d. and 2d., and in the case of over 100 bales the broker insisted upon the 1¼d. and 2d. for alternate lots. No one would go that length



at first, but ultimately a bargain was struck on a compromise, but a number of cases were bought in. The purchases were made on behalf of French and German houses, neither English nor American trying for the bark.

**CEYLON CINCHONA.**—The assortment of bark was, on the whole, very good. The bulk of the bark sold was *Officinalis*. *Original*, chippy and quill mixed, went for 2*d.* to 2½*d.*; and *Renewed* mostly at 4½*d.* to 5*d.*, a small dark lot fetching only 4*d.* Bold root-bark sold at 5½*d.* and 6*d.* A large volume of *Succirubra* was also sold at the following rates:—*Original* chips and shavings, somewhat dusty, 2*d.* to 2½*d.*; *Renewed* chips, 2½*d.* to 3½*d.*; low stem, 2*d.* and 2½*d.*; brighter and bolder, 3*d.* and 3½*d.* Several bales from the Lanka plantation sold at 4*d.*, the highest figure obtained in this class. One lot of red root bark sold at 2*d.*, but 3½*d.* was the price generally obtained; while 5 bales of bark, said to be "half-rotten," brought ¼*d.* more. *Hybrid* stem shavings and chips took the honours of the day for lowness of price, ½*d.* per lb. being accepted for 2 bales of somewhat twiggy bark; from 2½*d.* to 3*d.* was the common range of price for stem shavings. *Crown* stem chips, *Original*, sold at 2½*d.*, and *Renewed* at 3½*d.* and 3½*d.*

**EAST INDIAN.**—Fair Travancore bark in bright chips sold at 2*d.* There were only 9 bales of it, and the other 784 sold was equally divided between grey, red, and Ledger barks. *Original* kinds of *Succirubra* sold as follows: Fair to good bold and clean chips, 1½*d.* and 2½*d.* to 3*d.*; bold flat quill, 2½*d.*; fine druggists' quill, large and well formed, 7*d.* (one small parcel). *Renewed* fetched 1½*d.* to 2½*d.* for ordinary chips and shavings, and 5½*d.* for a specially good lot. Several bales of mixed original and renewed, 2*d.* and 3*d.* For *Ledger* bark the bidding was brisk and liberal, and the following were the values ultimately set upon the offerings:—*Original* branch chips and shavings, dull to fair bright, 2½*d.* and 3*d.*; good bright and clean, 3½*d.* to 4*d.*; and fine chips and shavings, 5*d.* to 6½*d.* *Renewed* stem chips, 3½*d.* and 4*d.*; fine ditto, 8*d.*; renewed broken quill, 6*d.*; and root, 4*d.* One parcel of *Crown*, 1½*d.*—a poor lot; *Officinalis* renewed, 3½*d.* and 3½*d.*; *Condaminea*, ordinary stem and branch chip, 2*d.*; root bark, 3½*d.*

**JAVA.**—*Ledger*: Branch chips, dull to fair bright dusty, 2½*d.* to 3*d.*; stem chips, 4½*d.* and 5*d.*; and fine root, 6*d.*

**SOUTH AMERICAN.**—Of cultivated Bolivian in good quills, 156 bales sold at prices ranging from 4½*d.* to 6*d.* The rest of the 206 bales that were sold were damaged more or less seriously, and sold at 3½*d.* to 5½*d.*

The cinchona auctions to be held in Amsterdam on July 14 will consist of 112 cases and 3,629 bales, about 305 tons, divided as follows:—From Government plantations 51 cases and 263 bales, about 23 tons; from private plantations 61 cases and 3,363 bales, about 277 tons. This quantity contains, of druggists' bark—*Succirubra* quills 81 cases, broken quills and chips 16 cases and 75 bales; manufacturing bark—*Ledgeriana* quills 15 cases, broken quills and chips 2 648 bales, root 646 bales; *Officinalis* broken quills and chips 23 bales, root 6 bales; *Hybrid* broken quills and chips 211 bales, root 20 bales. Further particulars will follow as soon as all the analyses have been published.

**CINNAMON.**—The market is decidedly firmer, and good business has been done this week at the following rates:—Seconds, 6½*d.*; unworked thirds, 6½*d.*; and fourths, 5½*d.* Higher rates are at present ruling at Colombo.

**CLOVES.**—The market is by no means brisk. In auction middling to fair *Zanzibar*, 2½*d.* to 2¾*d.*; good, 3*d.*; good picked *Penang*, 9½*d.* to 9¾*d.*

**CREAM OF TARTAR.**—There is no difficulty in getting quantities of first white in crystals at 87*s.*

**GINGER.**—Jamaica, although in large supply, has met with less demand, and sales have been made at easier rates. *Rhatoon*, common dark, 49*s.* 6*d.* to 57*s.*; ordinary dull and lean, 55*s.* to 58*s.*; dull washed, 59*s.* 6*d.* to 62*s.*; middling to bright bleached, 63*s.* to 70*s.* *Cochin* flat: B cut, 68*s.*; fine bold A, 100*s.* These were the principal items of Wednesday's sales.

**HENBANE EXTRACT.**—For the B.P. preparation made from English leaves we have heard that 6*s.* per lb. has been paid to the makers. *Belladonna* extract is also much firmer in price.

**ISINGLASS.**—The periodical sales were held on Tuesday, when 155,500 lbs. of the 183,150 lbs. offered were sold. Brazil was in good demand at steady prices, but excessive supplies of Bombay held to make those varieties go off flat; thus leaf was 1*d.* to 2*d.* lower, but purse 1*d.* dearer. Penang leaf was held for steady prices and little sold; purse dull. Saigon leaf 2*d.* to 3*d.* lower. Fine lump Brazil, 2*s.* 7*d.* to 2*s.* 9*d.*; good to fair, 2*s.* 2*d.* to 2*s.* 6*d.* West India lump, 1*s.* 9*d.* to 2*s.* 3*d.* Penang leaf pickings, 1*s.* 7*d.*; ordinary to good leaf, 3*s.* to 4*s.* 1*d.*; fine tongue, 3*s.* 10*d.* Saigon leaf, 5*s.* 11*d.*; fair, 4*s.* 9*d.* to 5*s.* 3*d.* Bombay good old-style tongue, 1*s.* 6*d.*; fair bladder, 1*s.* 10*d.*; fine, 2*s.* 8*d.* to 3*s.*

**MAGNESIA.**—Calcined is quoted at 10*d.* to 1*s.* 2*d.* per lb., according to the nature of the package, f.o.b. at works; carbonate, 32*s.* 6*d.* per cwt. on same terms.

**OIL (COD-LIVER).**—Our Norway correspondent writes under date of June 13:—"The Finmarken fishing is now over for this season, with a better result than last year. The total production of liver and cod-liver oil is 44,398 and 3,899 hectolitres respectively, against 29,172 and 772 hectolitres last year. Below I give you the total figures for the whole of Norway for 1892:—

		Liver		Cod-liver Oil	
		Hectolitres*		Hectolitres	
Soendmoere	.. ..	4,600		1,200	
Nordmoere	.. ..	7,737		5,300	
Vesteraalen	.. ..	14,400		2,827	
Tromsøe, Senjen, &c.	.. ..	1,000		1,440	
Finmarken	.. ..	44,398		3,899	
Lofoten	.. ..	23,000		8,100	
Total	.. ..	95,135		22,763	

The quantity of medicinal cod-liver oil is thus fully 1,600 hectolitres below that of last year, and 2,800 below the average of the previous four years. The quantity of liver available for other oils is 31,000 hectolitres over that of last year, but 9,500 below the average of the previous four years. Last year the lowest prices touched were 65*s.* to 67*s.* 6*d.*, but at the close of the Finmarken fishing prices went up to 70*s.* and 75*s.*, and remained steady at about 75*s.* till the beginning of this year. Price is, therefore, unwarrantably low at present, and it must not be forgotten that a great deal of Finmarken oil is of an inferior quality this season, which makes the quantity of really good cod-liver oil considerably less than for many years past. No surprise must therefore be felt if the price should move up a little ere long. It cannot be avoided later in the summer or autumn, although at present there may be sellers who will accept ridiculously low prices, just to turn their small stocks into cash. Sales have lately been made at 65*s.* c.i.f. U.K. east coast."

**OIL OF CLOVES.**—English distilled oil now commands 2*s.* 3*d.* per lb. from the distillers.

**OIL OF PEPPERMINT.**—The H.G.H. brand is dearer, and is no longer procurable at 13*s.* 4½*d.* per lb, but 13*s.* 6*d.* can buy it.

**OILS (FIXED).**—*Linseed* easier; spot, 18*s.* 6*d.*; land, 18*s.* 6*d.*; barrels, 18*s.* 7½*d.*; July-August, 18*s.* 10½*d.* *Rape* steady; refined, 24*s.* 6*d.* *Cotton-seed* quiet; refined, 19*s.* 6*d.* *Cocanut*, Caylon, 22*s.*; *Cochin*, 24*s.* *Palm*, Lagos, 23*s.* *Olive*, Spanish, 34*s.* 6*d.*; Messina, 34*s.* 6*d.*; Mogadore, 34*s.*

**OTTO OF ROSE.**—We have before us a letter from Constantinople confirming the statement made herein regarding the short supplies of otto of rose this year. Our correspondent states that "9 to 12 okkas of rose-leaves yield in a good season one metical of oil, whilst it was necessary this year to take 18 to 24 okkas. It is therefore believed that the result of the whole crop will probably not be more than about 250,000 meticals, against 450,000 in 1891; and when including the stock of last year, amounting to about 50,000 meticals, there will be only 300,000 meticals, against 500,000 in 1891. The stock in the hands of dealers cannot be very large, and no doubt there will be higher prices. Two hundred and fifty thousand meticals are equal to 37,500 Turkish ounces of

\* 100 hectolitres are equal to 88 barrels, or about 9 tons.



10 Turkish drachms. Three hundred thousand meticals equal to 45,000." The following comparison of the crops of recent years shows the exact position:—

Crop in 1892 ..	280,000 meticals =	about 42,000 oz.
" " 1891 ..	450,000 "	" 67,500 "
" " 1890 ..	520,000 "	" 78,000 "
" " 1889 ..	550,000 "	" 82,500 "

The finest qualities of otto have been sold in London at 30s. 6d. per oz. to wholesale buyers, and from 28s. to 28s. 6d. has been paid for the ordinary.

**OPIUM.**—A correspondent at Smyrna, writing on June 11, states that within the past fortnight the position of opium has remained almost the same. The sales for the fortnight amount to 30 chests, manufacturing sorts, with a slight fall of 1d. on the closing sales. Advices from the provinces state that the rains have caused slight damage, but it is quite certain that the harvest for the whole of Turkey will reach a minimum of 8000 chests. Arrivals from the new harvest amount to 40 chests, against 103 last year at same date. From another source, we have the following sanguine statement:—"The opium harvest of Sandikli, Kutahya, Bolvadin, and some other localities of the vilayet of Hüdavendighiar, promises to be more abundant than last year; the total produce of the whole province, including the district of Broussa, Karissi, and Ertoghroul, is estimated at 15,000 cases." This is at least 30 per cent. more than the most liberal estimates which have yet been made. Our Smyrna correspondent writes on June 25:—"The only sale this week consisted of 5 cases Karahissar talequale at the equivalent of 6s. 6d. per lb. f.o.b. Hitherto only 101 baskets of new opium have come forward, as against 205 at the same last year, but the gathering in of the crop in the lower districts commenced ten days later than usual. Moreover, it will be about 30 days less than the last owing to the unfavourable weather which prevailed during the harvesting. This, however, is not the case in the northern districts, where the crop is now being collected, and should the present favourable weather continue there is no reason to doubt that the total output this year, including the Malatia and Salonica kinds, will not be less than 9,000 baskets."

**PARAFFIN WAX.**—Refined rules at 3½d. to 4½d. per lb., according to melting-point.

**PEPPER.**—Business was done in auction on Wednesday at the following prices:—*Black*: Singapore, grey, 2½d.; fine bold washed, 3d. to 3½d.; fine bold Mangalore, 5½d. to 5½d. *White*: Penang, 3½d.; Singapore, dull brown to middling, 4½d. and 4½d.; fine, 6½d.; and superior bold, 8½d. Prices are easier.

**PHOSPHORUS.**—Dearer. Sticks are quoted at 2s. 1d., but an easier price could be obtained.

**PIMENTO** is steady at prices ranging from 2¾d. to 2¾d., according to quality.

**POTASH CHLORATE** continues to hold its firm position at 7d. per lb., but a shade less (say 6¾d.) would be taken.

**QUICKSILVER.**—Second-hand holders are selling at 7l., but the official quotation remains at last week's rate—7l. 2s. 6d.

**QUININE** remains in a lifeless condition, 8¾d. being the price taken for German.

**SEEDS.**—*Canary*: A firm tone has been prevailing during the last fortnight, and the demand is somewhat more active and prices are higher—viz, Turkish, 46s. to 50s.; Morocco, 48s. to 51s.; Spanish, 60s per 454 lbs. ex warehouse. *Hemp*—Russian, 33s. to 35s.; fine bold hemp-seed is scarce. The firmness of *linseed* continues and values are advancing. Sicilian seed, 54s. to 56s.; Russian, 39s. to 42s.; East Indian, 40s. to 42s.; River Plate, 39s. to 43s.; Calcutta, 39s. 6d.

**SHELLAC.**—Sales were held on Tuesday, when three times more of the article was brought forward than was required. The supply consisted of nearly 1,200 cases, and of these 454 were sold. Orange sold at a decline of 4s. and 5s., the prices being, orange fine unworked pale, 90s. to 91s.; dull broken, 88s. to 89s.; pale to good second, 82s. to 87s.; poor to medium flat, dull to red, 71s. to 75s. Button, 79s.; fair 2's and thirds, 73s. and 77s. Garnet, good unworked AC, 69s. to 71s. To day there is a better feeling, and 200 cases of TN have changed hands at better prices.

**SODA BICARBONATE** is very firm, the price at the works being 6l. 15s. per ton in 1-cwt. kegs, and 15s. more in London.

**SODA CRYSTALS** easy, at the last quotations.

**SODA PHOSPHATE** quiet, at 14l. 10s. in Liverpool.

**SUGAR OF LEAD.**—White English can be bought at 28s.

**TEA.**—The new Monings being now so close at hand, Congou buyers are waiting to see what the new crop will be like, though small lots of fine old teas at recent low prices have been sold here and there, and are now not very plentiful. Newmakes, 1892-93, are in excess of the demand, and really good tea is selling at 6d. per lb. Capers are quiet, and lower grades easy again. Fine capers are very scarce, but new teas will be here next week. Assams and Ceylons are quiet, and a "sick" market. Terminal quotations for Assam are 6½d. for spot, and as low as 6¾d. for the late months of the year. A light sale of Ceylon on Tuesday went slowly for common tea, but with a good demand for the very few really fine teas catalogued. N.S. Darjeeling are easier, though still too dear.

### THE LIVERPOOL MARKET.

**ARSENIC.**—The price is now fixed at 12l. per ton.

**CASTOR OIL.**—Good seconds Calcutta firm at 2½d.; first-pressure French is selling at 2½d. to 2½d.

**CHILIAN BEESWAX.**—Sales of pale yellow at 7l. 15s.; grey to yellow, 7l. to 7l. 10s.

**CREAM OF TARTAR.**—Easier, and 89s. now asked for first white.

**GRAINS OF PARADISE.**—A small parcel of 11 bags bright sold at 24s.; 27s. 6d. is generally asked by holders.

**HONEY.**—Californian and Chilian continue dull and uninquired for.

**QUILLAIMA.**—The steady tendency upward continues, and some ask 18l. now.

**TURPENTINE.**—Demand being quieter, this has now touched 23s. 6d.

### THE NEW YORK DRUG MARKET.

WRITING on June 22, our New York correspondent says that the trade in general is quiet, the excessively hot weather being apparently a factor in the dullness. Coca is very firm at 40c. for Huanoco, and as much as 60c. in some quarters for Truxillo leaves. Opium is quiet, and both it and quinine are selling only in a jobbing way. Lycopodium is dull and slow of sale. H G H. peppermint oil is strong at \$3, with sales of 25 cases at that figure, though some holders ask \$3.10, and the largest holder (Horne) wants \$3.25, but might shade a round lot; no transactions are reported, however, since last Thursday's noted above. Texas snake-root is offering rather more freely from the country at 20c., but 18c. is about the figure at which buyers would take it up. Senega is also offering more freely from out of town at 45c. for southern, 35c. for south-western, and 36½c. for Minnesota, but no business has been done, buyers holding aloof; stocks are fairly full both here and in the country. Some 36 bales of Mexican sarsaparilla have been taken up and mostly exported on private terms, and no more is in first hands at present. Golden-seal has eased off, and there has been a sale made for export at 21½c. The indications are that the usual "bear" tactics are being inaugurated against the indigenous root in view of the approaching season for gathering. The absence of export demand is, however, a very forcible and legitimate "bear" argument.

### THE SMYRNA OPIUM MARKET.

TELEGRAPHING on this date, our correspondent at Smyrna states that: "Fifteen cases have been sold this week at the last-quoted prices."



## A VISIT TO THE HITCHIN DRUG-FARM.

PASSENGERS from Peterborough to King's Cross have now an opportunity of observing several acres of henbane and belladonna in flower, just before entering Hitchin Station. The field, which is some twelve or fifteen acres in extent, runs directly by the side of the line, and fully half of it is this year cropped with belladonna and henbane. It is one of six or seven fields owned and farmed by Messrs. Ransom, and which are distributed impartially around the little town. The plants are placed in symmetrical rows, about two feet apart, whilst in between the young seedlings have been planted this spring. The henbane, which is large and handsome, struck our visitor, however, as a trifle smaller than usual. This way of putting it was, indeed, a good way below the truth, for Mr. F. Ransom informs us that the crop is under half the average. In this strip, where it is estimated about two tons of henbane is flourishing, they would have expected, under ordinary conditions, to have had five tons. This depletion is due to the winter having destroyed a large number of the older roots. The plants are about  $3\frac{1}{2}$  feet high, and in spite of the generally delayed season, were flowering well, although it was but the second week in June. The seedlings were only about 10 inches high, but looked strong and healthy. Some few years ago Messrs. Ransom had a phenomenal crop of henbane, and it could neither be disposed of nor covered into extract fast enough, so a large quantity of seed was obtained. This supply of seed has not been exhausted yet, and the first year's biennial plants that we saw were from that same stock.

The belladonna appeared to have been still more retarded by the winter, only a small percentage being in flower, whilst the gaps in the rows were very frequent. The plants were only about  $2\frac{1}{2}$  to 3 feet in height. A few elaterium-plants were growing here also, but they, too, have suffered severely during the winter. The portion nearest the line has been planted this spring with peppermint, and the plants looked fairly well, although showers were much needed to bring them on. The flowering of both lavender and peppermint will be late this year, and cannot be expected before the end of July or beginning of August. A peculiar red or coppery colour that some of the peppermint-leaves were tinged with is due to a kind of blight, which, if the plant is strong and vigorous, will be thrown off after a time. Labourers are required through the spring and summer to hoe up weeds and break the soil between the rows. This is particularly necessary, or the young plants are rapidly choked by their rivals. It may here be mentioned that the soil all round Hitchin is admirably suited for plant-cultivation, consisting of good sandy loam on chalk.

Another field belonging to Messrs. Ransom, which we visited, contained last year a good quantity of elaterium, but is now nearly empty. We ventured to suggest that the demand for elaterium was getting small by degrees and beautifully less, but Mr. Ransom was not inclined to agree with us. Some reason for the demand not increasing may be due to the foreign article being used, as Mr. Ransom finds that the latter contains from 5 to 10 per cent. less elaterin. The English elaterium will usually yield about 30 per cent. of elaterin, and the foreign only about 20 per cent. Close by Messrs. Ransom's laboratory and factory, which are situated in another direction, is a bed of aconite, the plants so close together that, in spite of their tall and graceful racemes, the whole appearance is that of a bluish-purple tablecloth upon a green table.

The green extract of aconite is not so much used, the non-official alcoholic extract of the root having to some extent replaced it. Adjoining the aconite is a large plot devoted to hemlock, which, in this cool and shady spot, is growing luxuriously. It is already nearly 6 feet high, although there are no signs of flowering, and it will yet grow another 2 feet or 3 feet after flowering and before running to seed. This is the best time for conium, says Mr. Ransom, *Pharmacopœia* notwithstanding. [The actual date when this was said was June 11.] The average yield of juice from 1 cwt. is from 35 lbs. to 40 lbs., or from  $3\frac{1}{2}$  gallons to 4 gallons. The application of heat to fresh juices is unnecessary, in Mr. Ransom's experience, if the liquid, after the addition of spirit, be

allowed to stand for some time before attempting to filter. A large quantity of hemlock as well as digitalis is collected in the neighbourhood of Hitchin and brought to Messrs. Ransom's laboratory.

Turning towards the private residence of Mr. W. Ransom we pass a few more fields devoted to drugs and herbs. Some belladonna and a good deal of lavender is flanked with the sorry remains of rosemary. There is no doubt that the English rosemary crop is a failure this year, and this report is confirmed from Mitcham. We cannot help expressing our pleasure that, fortunately, English oil of rosemary is one of the few English essential oils that we can do without, as everything points to the price being very high indeed.

On the brow of the hill which overlooks the railway-cutting, only a quarter of a mile away, are the last of Messrs. Ransom's fields. The one nearest the house is full of lavender and peppermint, the latter being nearly all the black variety. The other contains, besides lavender and peppermint, another good-sized plot of henbane. Although these fields are more exposed than the others, the henbane is the finest we have seen. Some of the troubles which drug-growers have to meet are here pointed out. A large plant of henbane was lying over in a very withered condition, its neighbours, however, looking healthy enough. On pulling up the root tiny holes are seen in it some 3 inches below the ground which have been caused by a wireworm. The whole area which Messrs. Ransom & Son have under cultivation at Hitchin is a little over 50 acres. Of this amount practically one-third is devoted to medicinal plants and two-thirds to lavender and peppermint. It is impossible to maintain the same crops in the same field for more than four years, as the soil is exhausted of the peculiar constituents required by that herb. It is usual to change the crops completely, from a medicinal plant to peppermint or *vice versa*, or again to give the soil a rest.

Amongst some of the interesting information given by Mr. F. Ransom we learn that succus digitalis is being preferred to extract, that salted elder-flowers are quite things of the past, and that extract of *Scopolia carnolica* or *Scopolia atropoides* meets with no inquiry. Mr. Ransom is naturally not a little disappointed at this, as, in conjunction with the work done in the research laboratory of the Pharmaceutical Society on the subject, he worked out an assay method and produced stable standardised preparations of scopolia.

## HOW JUJUBES ARE MADE.

JUJUBE-MAKING may be divided into two branches, viz. ordinary jujubes—such as voice, delectable, and magnum bonums—which are cut from the sheet, and pastilles, which are moulded. The bases in both cases are practically the same, gum arabic being the principal constituent. The gum is made into a thick mucilage with cold water, both being placed in a large copper which has a mechanical arrangement for constantly stirring. Thereafter it is strained and boiled up with sugar and the other component parts of the basis. For jujubes the mass is poured into a tin, such as the jujubes are sent out in, to a depth of about one-third of an inch, which is then placed in the hot-chamber for at least a month. It takes this time before the basis comes to a condition of maturity in which it is fit to cut into jujubes. When it has reached this stage it is cut by a machine fitted with a double set of knives, so arranged that they cut both ways. Pastilles, we have said, are moulded. The method is as follows:—The workman fills a wooden tray with starch-powder, and smooths the surface; now, taking a mould with half-a-dozen figures of the pastilles on it, he presses this into the powder again and again with great rapidity, until the tray is full of moulds. Next the workman takes a large ladle with six outlet tubes which exactly correspond in setting with the moulds in the tray, and with this ladle he quickly makes a trayful of pastilles. At this stage the top of the pastille is convex, but in the course of a month's drying it becomes concave. After they have matured the pastilles are glazed or crystallised according to their nature.





### Memoranda for Correspondents.

*Always send your proper name and address; we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.*

*Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.*

*If you send us newspapers, please mark what you wish us to read.*

*Ask us anything of pharmaceutical interest: we shall do our best to reply.*

*Before writing for formulae consult the last volume, if you have it.*

*Letters, queries, &c., will be attended to in the order received.*

### The Patent-medicine Men Speak.

SIR,—I am desired by the committee of the Association of Owners of Proprietary Medicines to explain, in reference to the remarks in your journal of June 13, that no case was stated by way of appeal by Mr. Davenport from the magistrate's decision, because the course taken by the advocate in closing the case without calling evidence precluded any real or satisfactory discussion; it was thought better to leave all points open.

I am also desired to thank you for the offer to subscribe to a fund to obtain an authoritative decision on the subject, and am requested to point out very clearly that the late prosecution, or any arising out of it, if promoted or undertaken by the Pharmaceutical Council, was or will be a breach of faith of an engagement entered into (as must be well known to some members of the Council) by which, in consideration of this Association, not objecting to the Pharmacy Act, 1868, they expressly, and as absolutely as possible, agreed that *bona-fide* stamped medicines, known then and now as "patent medicines," should be exempt from the operation of the Act, and this Association deeply deplores, in the interest of the trade, that no endeavour has been made by the Council to settle the matter in an equitable manner. Under these circumstances, it is the intention of this Association to defend any member, as each occasion arises, who may be proceeded against under the Act, and to carry the matter to the High Court if the facts and evidence are such as may lead to a decision which all can accept as an authoritative exposition of the Act.

Yours truly,

W. WHITAKER, Secretary.

Association of Owners of Proprietary Medicines,  
6 Great Winchester Street, London, E.C., June 29.

SIR,—In asking you to insert the enclosed, I wish to make it plain that, so far as I am concerned—and I hope it is also the feeling of every one of us—not the slightest antagonism to the chemists is intended, but, on the other hand, an earnest wish that some way could be found to benefit the trade.

While we are year after year menaced by the Pharmaceutical Council, it would be suicidal for us even to attempt to restrict the sale of medicines absolutely to chemists, neither do I believe it would ever be legally so restricted. On the other hand, what is more natural than for the public to go to the chemist for their medicines, and he to expect a decent profit for supplying them? This he often utterly fails to get, as much from the dealings of cutting chemists as stores, grocers, &c.

I have both directly and indirectly in the past approached the Council, believing that if they would only deal with the patent-medicine proprietors, instead of ignoring them on the one hand and fighting them on the other, then a benefit to the retail trade must ensue, but without result; indeed, I understand they consider themselves a purely scientific body, and hardly at all recognise what a help they could be to the trade. I venture now to ask every chemist who has to obtain his living, the same as each of us has to—viz., by the sale of his medicines—whether this is the way to treat such a question. The importance of the

subject is measured by the fact that we pay the Government over a quarter of a million every year, and it will in the future be double that, for stamps alone. This is a good trade, and I say, squarely, I should like to see it in the chemist's hand.

I indicate what I believe to be a distinctly feasible remedy, and if the trade will only induce the Council to act on the lines indicated, I believe it would be the commencement of a new era; at any rate, it would be worth a trial.

These lines are simple, and I believe the Government would be inclined to assist or pass a Bill on this basis—

(a) Let all patent medicines be registered, an annual registration fee to be paid for each medicine; if not paid the article to be erased from list.

(b) All existing patent medicines to be registered on application, but any new ones not to be registered, unless they satisfy a board that such medicines are not dangerous for human use.

(c) If danger to those using the medicine be alleged and proved in a court of law against any patent medicine, then the Board to order such label to be affixed as in their judgment shall be necessary, and without this label it shall be unlawful to sell such medicine.

(d) The Board to consist of a paid President nominated by the Government, and two medical men, two members of the Council, and two members of the Association of Patent-medicine Proprietors.

I suggest that the Council should take this as a rough basis of agreement, on the understanding that a certain number of the proprietors, together with the wholesale houses, shall agree that steps be taken by which no retailer shall be supplied unless he covenants to, say, sell at not less than 1s. for all 1s. or 1s. 1½d. goods, and so on.

The absolute effect of this will be, not only will every chemist get a good profit on the quantity he now sells and be delivered from the wretched competition now going on, but practically the bulk, and perhaps the whole trade, would in time fall into the chemists' hands. At present the sole object that appears to be aimed at by anyone is to confine the sale of poisons to chemists, and even (which is most unlikely in the extreme to be realised) if this extends to all articles containing poison, still it would only result in giving the public the impression that chemists sold "dangerous and dear" medicines, grocers and stores "good and cheap" medicines, whilst if the above arrangement is carried out all will sell, say, at one uniform price, and it is inevitable that the public, if they can buy at the same price, will prefer to buy their medicines at their own chemist, whom they are sure to credit with more knowledge and experience than grocers.

The only point where the arrangement could fail would be as to whether a sufficient number of proprietors would come in. This is a matter within the discretion of those to be appointed by the Council (or, failing any action by them, if the chemists themselves would, under the leadership of THE CHEMIST AND DRUGGIST, take up the question it could be doubtless dealt with in that way). My firm belief is that if the Council would only take the matter well in hand they would be surprised how easily a great change could be arrived at; for although many proprietors would stand out, yet success does not depend upon everyone joining, and when it was found that those who started were doing well, then the very success would bring in the others.

We are now at a crisis in the chemists' trade, for the proprietary question affects everyone, as there is hardly a chemist who does not put up one or more medicines, and according as the Council work with or against the large, so are they just as much for or against the interests of the small, proprietors—indeed, still more, for the large proprietors are more able to take care of themselves than the others.

I am, Sir, yours faithfully.

ONE OF THE LARGE PROPRIETORS. (61/58.)

SIR,—I enclose you a price-list of patent medicines issued by a branch of the International Tea Company, just started in this town, where you will see Eno's Salt (2s. 9d. size) quoted at 1s. 10d., Beecham's 1s. 1½d. pills for 9d., Lamplough's Saline, 1s. 10d., &c.

As we have for years sold 1s. 1½d. Beecham's, &c., for 10½d., I do not think the public have much to complain of; but the I.T.C. list prices are really too philanthropic. In



fact, I think they ought to be prayed for in church even by all good citizens—i.e., if they supply all their teas and groceries at the same percentage of profit. I would respectfully suggest to Messrs. Beecham, Eno, Lamplough, Dinneford, Cockle, Scott, and other well-known manufacturers that they should adopt a plan similar to Messrs. Elliman—after a certain time refusing to supply any dealers who sold under a price to pay a small profit. Ten per cent. would satisfy me.

I think the manufacturers would find it to their advantage to meet the chemists in this way. You will also notice patent medicines containing scheduled poisons still listed. Another job for the Society, when ready for the fray.

I beg to remain, yours faithfully,

EDWARD J. EATON, M.P.S.

The Pharmacy, Church Street, Woodbridge, June 28.

Mr. Harry Iron, Shrewsbury, says he sent to the Pharmaceutical Society particulars of the sale of a poisonous proprietary medicine by an unregistered dealer, and he sends us the official reply he has received. It is to the effect that while no doubt the Council will take the necessary steps to enforce the Act in cases such as the one referred to, they consider it "undesirable that any local action should be taken which might embarrass the Council in the proceedings they are about to institute." What do they mean?

#### The Insane Root.

SIR,—I shall be much obliged if you or any of your readers can tell me what plant it is that Clusius describes under the name of *Pruna insana*. I cannot find the name in any of the English herbals to which I have access here in Boctia, but there is in William Ramsey's treatise "Of Poysons" (London, 1660), of which I happen to possess a copy, a very graphic and curious account of the effect of its fruit upon a ship's crew, by which I am led to suspect that this plant (whatever it may be) is none other than Shakespeare's "insane root that takes the reason prisoner" ("Macbeth," i. 3). Had the plant been described by Lyte or Gerard I should have cried "Enreka!" at once, but apparently it is not. Still, it is possible that Shakespeare may have read of it elsewhere. The effect of the fruit, says Ramsey, is to make men "extraordinary sleepy, Canse Laskes, seise on the Heart, spirits and Braine, exciting divers strange phansies and Chymeraes in their heads;" but his account of the case of certain Dutchmen who partook of it too freely, my modest pen refuses to transcribe.

Yours, &c.,

C. C. BELL.

June 28.

#### Improving the Opportunity.

SIR,—I give you below copy of two circulars I have written to-day, got signed by chemists here, and posted to each of the candidates for Bassetlaw parliamentary division.

The hint I took from one of your correspondents, and think, if you could stimulate others to similar action, good results might follow.

I will let you know candidates' decisions.

I remain, yours truly,

30 Castle Street, Worksop,

J. A. WOOD.

June 27.

[COPY.]

To—

SIR,—We, the undersigned chemists and druggists of Worksop, should like to know whether or not you would give your support to a Bill—which in all probability may be placed before the next Parliament—having the following object:—

That all medicines intended for internal administration shall be vended only by duly qualified medical men and chemists.

We are, Sir,

Yours faithfully,

(Signed)

TOM MORRIS,  
GEO. W. JONES,  
GEO. BAXTER,  
THOMAS E. PASK,  
JAS. A. WOOD.

Mr. Arthur Coke, of 339 Oxford Street, has prepared some election handbills advocating voting for candidates favour-

able to leasehold enfranchisement, graduated income-tax, and the suppression of trading by public servants. Mr. Coke wants to supply these to chemists' associations, clubs, &c. Will secretaries and others please write to him?

#### Chemists' Assistants' Union.

SIR,—Ever since the decision in the Wheeldon case, the services of qualified men have been, properly, more valued.

The qualified assistants have for some time really had the power of stopping much of the store business, and so increasing the status of the trade. No better opportunity can occur than now. Let them, now that the demand for their services is so great, refuse to accept less than double what is offered elsewhere, as it must be pretty evident that, if employed long enough to have a reference from such a source, the likelihood of obtaining a really good berth would be very small indeed. Their career would be seriously jeopardised. So long as the public can have prescriptions dispensed for less than half the usual chemists' charge by qualified men will masters be unable to afford what should be a good remuneration for valuable services. When qualified men can be found who are foolish enough to work for 30s. a week at stores, simply because the hours (not the work) are "easy," how can unity be obtained?

No man who has been at so great expense to qualify, and undertakes such directly responsible work as dispensing and the sale of poisonous preparations, should, in my opinion, think of accepting less than an equivalent of 50s. a week at least, which, reckoned at 100 hours a week, is still only a miserable pittance of 6d. per hour.

With reference to these long hours, I see no reason why they could not be considerably reduced in the great majority of cases, except that masters will not agree as to the hour of closing. What can be done by stores surely cannot be too much for chemists.

Asistants could do much to assist this end if they only valued their services more, and charged so much per hour.

Yours faithfully,

MANAGER. (60/43)

SIR,—I have read with interest the letters from assistants for a union. If we could obtain one, we could blackmail all who would not give hearty support to it. For we could then have shorter hours, better pay, and chance of obtaining good situations.

Yours respectfully,

REGISTER. (58/46)

[We cannot congratulate the advocates of the scheme on this indiscreet declaration of an intention to "blackmail" the masters.]

SIR,—Your article on "Assistants' Grievances" seems to me to be pervaded by the spirit of how not to do it. Undoubtedly, assistants show a want of delicacy in applying to you for aid in the matter of a union. They ought to bear in mind that but few of them help to support THE CHEMIST AND DRUGGIST; and one cannot afford to offend one's patrons nowadays.

Still, I fancy a union might accomplish a lot of good, and that assistants might move in the matter now, as they will never have a better opportunity. Your discovery that there are only 2,000 qualified assistants is probably a true one; but the assumption that the most of those men are satisfied with their lot is not quite correct. No doubt those employed in large establishments and in the despised stores are so, but the men in those "comfortable homes" we read so much about in advertisements, and meet so few of afterwards, can hardly be said to be content. And the great army of the young unqualified, are they content? Chemists cannot do without them, and they will have to be reckoned with in some way in the next Pharmacy Bill. A recent writer in a French magazine, in commenting on the great stores, pointed out that they were in perfect accord with the principles of political economy, and that they were come to stay. He showed how much better was the position of their employes than that of small tradesmen, and gave some advice which assistants might lay to heart. An Assistants' Union would scarcely exist to encourage stores; but it might



protect those benefits which the store-system bestows, and extend them to all its members.

I mean greater personal freedom, and the minimum of 72 hours' weekly work. The greatest difficulty it would have to contend with would be the indoor system, which is the assistants' greatest curse. Besides being made to feel how much a stranger he is in the house, an interloper on all occasions, he is never free from business "grind." Were a union only to abolish this iniquitous system, it would well earn its existence. Surely someone sufficiently disinterested can take the initial steps for organising such a work. He would have a good cause to fight, and, I am persuaded, many willing helpers.

I am, yours obediently,

IVAN. (60/10)

SIR,—Chemists' assistants' grievances really and truly exist. Speak with whom you will in the drug trade, you will hear the same complaint—"The business is not so bad, but the hours taken to conduct the same are abominable." Even for qualified men in the best West-End houses, let us just see how they work simply to earn "bread and cheese," with not as much salary in the majority of cases as would be given to assistants in other businesses. These establishments employ three or four qualified men, and hours of business are from 9 A.M. to 7.30 or 8.30 P.M. In these places (where hours are considered short) there is a lot of work to be done in the time, and work requiring the utmost care and attention. Those whose position you speak of as a somewhat enviable one are engaged in their calling 80 hours per week. Of course I am reckoning night and Sunday duty, which one must do, as it is time employed in little else than business; and I am sure that this is a fair average. Is not this too long to be engaged in the duties of a pharmacist? The majority of us will say, "Yes, certainly." But we go on with pale faces, grumbling, discontented with our lot, and only satisfied by the thought that it will not be for long, as we hope soon to have a business of our own, when we can arrange our own time. But the principle is a wrong one, and should be "put down." A business that requires all this attention for a bare living must be a bad one.

In your article you point out that there are only 2,000 qualified assistants in Great Britain. Surely these ought to be able to form some sort of combination when they are nearly all "harping on the same string." It seems to me that the Chemists' Assistants' Association is the body to take this in hand. These would then have the game in their own hands, as stores cannot be conducted but by their aid. Our employers must not stand still in the movement. They must give their employés more freedom. This is the first thing needed, and they will be better able to do their work to the satisfaction of the former and contentment of themselves. In my opinion chemists in business are largely responsible for the success of the stores; they have driven many a good assistant there by their excessive hours.

Your obedient servant,

A BROTHER PILL. (61/9)

[We give a fair space to the letters of assistants on this subject, but we have been obliged to cut down unmercifully some of the inordinately lengthy communications we have received.]

#### A Curiosity in Dispensing.

SIR,—A customer of mine, through reading *The Review of Reviews*, was induced to get a supply of Count Mattei's medicines, and, finding the directions somewhat intricate, asked me to prepare them. According to my calculation it will take him above eleven years before he gets the whole of one globule; there are 170 in the bottle. He appealed to the agent at my suggestion, pointing this out, who replied, "Strange as it may seem to you, the directions are correct." Briefly, these are as follows:—Put one globule in 8 oz. of water for No. 1 dilution; one teaspoonful of this in 8 oz. more of water makes No. 2 dilution, and one teaspoonful of No. 2 in still 8 oz. more of water makes No. 3, which take each day. No. 2 will at this rate, of course, last 64 days, and No. 1 will make 64 bottles of No. 2. Homœopathy does not seem in the running at all.

Yours,

GILGEN. (61/8)

#### DISPENSING NOTES.

*The opinions of practical readers are invited on subjects discussed under this heading.*

#### Prescriber and Dispenser.

SIR,—Your comments on "Fyfe's" note regarding the iodide and ferri-chloride mixture (47/14) are not quite severe enough. Had he been a "Fifer," instead of a "Fyfe," he would have known better how to blow his horn. Druggists never gain anything by nursing bad feeling against doctors.

I have for years past been in the habit of dispensing prescriptions of a similar composition to that quoted by "Fyfe," and never had any hesitation in sending them out without a "poison" label. If "Fyfe" would consult good medical authorities, and learn a little physiology and medicine, he would have much more confidence in himself and in prescribers. Such knowledge would enable him to conjecture what takes place in the system of a patient who gets the following mixture:—

Potas. iodid.	..	..	..	..	3vj.
Ammon. carb.	..	..	..	..	3j.
Aque ad	..	..	..	..	3vj.

M.

A tablespoonful every four hours in water.

Each dose of this mixture contains about 22.9 grains. How many "poison" labels would "Fyfe" put on the bottle in such a case?

For years past there has been much growling and grumbling among chemists, but it strikes me that if many had learnt their business a little better, not to say civility to doctors and customers, they would be more prosperous as shopkeepers.

DISCRETION. (59/57.)

#### Polypharmic Prescriptions.

SIR,—I recently observed in your columns a copy of a prescription containing eight ingredients, to which four more were afterwards ordered to be added. The subjoined is a *bonâ-fide* copy of a prescription of a doctor of "the old school" (now deceased), who practised in N.S.W. I have also dispensed prescriptions by the same practitioner which contained as many as twenty-two ingredients, but the subjoined was about his average "shot-gun." It was the practice to set aside the bottle in a safe place for a time before corking to allow the incompatibles to "fight it out."

Warialda, N.S.W.,

I am, yours, &c.,

May 18.

EX-PHARMACEUT. (59/38.)

Decoct. seneg. ad	..	..	..	..	℥ss.
Bals. canadens	..	..	..	..	3ij.
Mucil. acac.	..	..	..	..	3j.
Syr. hemedis	..	..	..	..	3ij.
Carb. ammon.	..	..	..	..	3iss.
Liq. bismuth.	..	..	..	..	3ss.
Tinct. calamb.	..	..	..	..	3ss.
Succ. taraxac.	..	..	..	..	3ss.
Tinct. scillæ	..	..	..	..	3ij.
Tinct. camph. co.	..	..	..	..	5iij.
" lupuli	..	..	..	..	5iij.
" digitalis	..	..	..	..	5ij.
Spt. eth. chlor.	..	..	..	..	5ij.
Acid. hydrocy. dil.	..	..	..	..	3j.
Tinct. bellador.	..	..	..	..	3j.
Liq. cinchon. cordifol.	..	..	..	..	3j.

M. ft.

Sig.: 3ss. ex aq. 3j. 3ts horis. Agitat.

53/52. *Dies* asks:—"What length of day does the prescriber mean in writing the following directions?—'3ss. in water every four hours until relieved, and then thrice daily.'"

[A twenty-four hours' day in the first instance, in the second a day of the waking hours. Patients who are asleep in the former instance should not be awakened when the dosage time arrives, but should get the dose when they awake naturally, then four hours after that, and so on.]



## Who can Read it?

A Carmarthen chemist (55/39) has been asked to dispense the following prescription. It is believed to be of Spanish origin. Will one of our subscribers in the Peninsula give us a version of it in some human language?—

*Don Juan 2591 Plasencia 16 July 192*  
*Quina 1/2 6vj.*  
*Fintan en cacao 10vj.*  
*Latex 1170 100vj.*  
*Ulluco gum 500vj.*  
*Amoroso de flav 30vj.*

Our correspondent informs us that he is told the article supplied was about a pint of a port-wine colour, tasting bitter (like quinine), was taken as a blood-purifier for boils, &c. Dose: Two tablespoonfuls before meals, twice a day.

29/6. The prescription is for tincture of gossypium (Parke, Davis & Co.). Send 10 grammes (rather more than one-third of an ounce). Direct 20 drops to be taken every two hours until the required effect is produced.

57/70. *Enquirer* wants to know the best method of mixing the following:—

Zinc oxydi .. .. .	3vj.
Glycerini .. .. .	3iv.
Ol. olivæ .. .. .	3vj.
Liq. calcis ad .. .. .	3vj.

M. Ft lotio.

Rub the zinc oxide with the olive oil, add the lime water gradually, and lastly the glycerine.

60/49. *Perseverance*.—Fifteen grains is supposed to be the size of bougie-moulds, but some are larger. Yours is apparently a 20-grain mould. When a new mould is got it is always wise to determine the weight of cocoa-butter which it holds. Usually no allowance need be made for quantities of salts under 2 grains in each bougie. (2) You will find particulars regarding the Apothecaries' Society's examinations in our Educational Number. The address of the company is Blackfriars, London, E.C. Enclose a stamped and addressed envelope.

## LEGAL QUERIES.

Consult Alpe's "Handy-book of Medicine-stamp Duty" in regard to patent-medicine questions.

General information regarding the laws affecting chemists and druggists is printed in THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, pp. 161-5.

For stamp duties, licences, Customs regulations, &c., see the DIARY pp. 151-9.

58/37. *Enquirer*.—We have replied on the point you raise to a number of correspondents. You are required, when you sell a poison, to label the article with the name of the poison, as well as with the word "poison," and with your name and address. It is open to argue that in the case you suggest the name of your proprietary article is the name of the poison, but we cannot tell how that argument would be received by a Court.

59/17. *H. J. I.*—We cannot give you an opinion whether your fly-papers will infringe this or that "or any other

patent." Your order is too comprehensive. The two fly-paper patents that we know of are Mr. Wilson's (10,781, 1887) and Messrs. Tunbridge & Wright's (10,767, 1889). Get the specifications from the Sale of Patents Office, Cursitor Street, W.C., and judge for yourself. Have we not answered you before on this same subject?

60/14. *Victory*.—You are not justified in using a still for any purpose without being licensed, or without the permission of the Board of Inland Revenue. You had better apply for such permission.

60/33. *Hair Restorer*.—It is not necessary to attach a poison-label to a lotion because it contains a little cantharides. Only the cantharides themselves, and "the tincture and all vesicating liquid preparations" thereof are scheduled as poisons.

58/37. *Enquirer*.—Refer the inspector to section 45 of the Weights and Measures Act, 1878, which says: "A weight or measure duly stamped by an inspector under this Act shall be a legal weight or measure throughout the United Kingdom, unless found to be false or unjust, and shall not be liable to be re-stamped because used in any place other than that in which it was originally stamped." The inspector has a right to seize and detain any weight, measure, &c., found to be false or unstamped, but he has not the right to break up and destroy the same (unless you consent) until he has proved his case before a Court.

61/25. *L. asks*:—"May an unregistered person sell a cough-mixture into the composition of which tinct. opii camph. enters?" [No.]

61/63. *Branch Shop* says:—"I have noticed that firms having branches do not invariably have separate labels, address and otherwise, for each shop. How does this work under the poisons law? Will one label—that of the central shop, say—do for four or five others? It does not seem to be quite the thing even, as some do, to put all the addresses on one label."

[The Act requires that the name and address of the seller of the poison should appear on the label. We do not think the law is fulfilled when the address of the head shop is used for a branch shop, but we should think it would be when all the addresses are given. It is better to have distinct labels for each shop.]

82/26. *Alpha*.—Your label is an infringement of two persons' trade-marks. You are not entitled to use a registered trade-mark in this way.

## MISCELLANEOUS INQUIRIES.

*Inquirers will please read the "Memoranda for Correspondents."*

A list of "Books for Chemists" is given in THE CHEMISTS' AND DRUGGISTS' DIARY, p. 317.

For all particulars regarding Educational and Examinational matters refer to our issue of September 19, 1891.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulæ, &c., occasionally referred to in answers, can be obtained from the Publisher at 4d. each.

73/55. *Queensland*.—Paste Blacking.—Bone black, treacle, of each, 8 oz., powdered gum arabic, 1½ oz.; sperm oil and oil of vitriol, of each, 1 oz., vinegar sufficient to work to a suitable consistency. Mix in the order given and allow all action to cease with the oil of vitriol before adding the vinegar, or some prefer sour ale.

41/14. *Parazone*.—We cannot occupy space in this section by quoting formulæ from the Pharmacopœia.



55/65. *F. I. L.*—Your sample of powder for Improving the Colour of Canaries is the usual mixture of Nepal pepper, turmeric, rice, and sugar. See back numbers—about July or August of the past two years—for formulæ.

55/69. *Carboy.*—To Prevent Coloured Liquids in Show-carboys Freezing you may use glycerine instead of spirit—2 oz. to a pint.

50/67. *Cymro.*—The reason your Dr. Locock's Lotion for the Hair separated was using spt. rosmarini, B.P., which is made with S.V.R., instead of one made with weak alcohol. There is a well-known preparation in the trade which contains traces of other essential oils, generally lavender and cassia. By thus modifying the formula, we obtain a nice preparation:—

Expressed oil of mace	..	..	..	..	1/2 oz.
Olive oil ..	..	..	..	..	2 drachms
Liquid ammonia (strong)	..	..	..	..	1/2 drachm
Rose-water	..	..	..	..	2 1/2 oz.
Spirit of rosemary (as above)	..	..	..	..	1 "

Dissolve oils with heat, put into a warm mortar; mix the ammonia and rose-water, add gradually, and then add spirit of rosemary.

57/31. *Salop.*—Beniseed is another name for til or sesame seed, which yields the well-known sweet oil. It is largely exported from Africa and India.

54/69. *Cryolite.*—Cryolite is obtained from mines situated in Greenland. Thirteen cargoes were exported in 1889—all, so far as we can trace, to the United States. We do not know where you could get it in this country.

59/22. *Benzoin.*—See note from our Australian correspondent last week. If you are qualified you might do fairly well in Australia; if not, do not go out as a chemist. There is not such a demand for qualified men as to make it likely that you could make sure of a situation before you started.

30/30. *Jean.*—Take your master's or your parents' opinion on subscribing to the society. We cannot tell what opportunities you may have for making use of its resources. You can reduce the colour by filtering the spirit through animal charcoal.

41/60. *Apprentice.*—The postal course would be useful to you. But if you know nothing of Latin you should study carefully Ince's Pharmaceutical Latin Grammar as well.

30/6. *Guarana*—For weed-killer see back numbers. A very good one is given June 11, 1892, page 853; see also March 12, page 388.

55/62. *J. J. C.*—Silvering-solution, to be used without a bath.—Try this:—

					Drams
Mercury	..	..	..	..	2
Nitrate of silver	..	..	..	..	1
Nitric acid	..	..	..	..	4
Water	..	..	..	..	2

Mix in flask and dissolve; add water q.s. to 2 oz.

After applying bring up the polish with prepared chalk. To silver iron, you must first have the surface clean and bright, then dip in a solution of sulphate or nitrate of copper before applying the solution. Brass requires no other preparation than having the surface bright and free from grease. A very effective silvering-paste was given about August of last year.

58/47. *Ireland.*—The Powder for a Debilitated Calf seems to consist simply of powdered nitre and Brazil wood (3i. to 3j.). We can find nothing else in it.

55/13. *Baffled Scot.*—Liq. Ammon. Acet. Fort. (1 to 7).—See issue February 27, 1892, page 322. You say, "When in doubt ask THE CHEMIST AND DRUGGIST." Don't you think it might not, in many cases, be altered to, Consult the index of THE CHEMIST AND DRUGGIST, and thus save time?

59/63. *Antipyrin.*—Bull Burnt is a form of gonorrhœa, and is contagious. It is best treated with salines internally, as follows:—

Pot. nit.	..	..	..	..	3iv.
" bicarb.	..	..	..	..	3ij.
Mag. sulph.	..	..	..	..	3xij.

M. Ft. haust. Bis terve die ex aqua.

A cooling diet should be observed, and an injection into the sheath of—

Zinci sulph.	..	..	..	..	gr. x.
Aq. dest. ad	..	..	..	..	Oj.

Sape utendum.

52/54. *Derbyshire.*—Essence for making Stone Ginger-beer.—

				Parts
Soluble essence of ginger	..	..	..	3
" " lemon	..	..	..	1

It is almost impossible to make a really fine stone ginger-beer from the essences. You must have in addition, 1 lb. of sugar and 4 oz. of honey to each gallon. Pour boiling water on the sugar and honey, allow to cool to blood-heat, add sufficient essence to flavour, and ferment with yeast floated on pieces of toasted bread for two days or so; then bottle, and keep in a cool place.

53/74. *Statim* sends a sample of Hair-wash with the following notes:—

- "Prepared from herbs,"
- "Not greasy,"
- "Does not irritate the scalp,"
- "And seems to be a dilute form of
- "Locock's Lotion."
- "Being harmless it is therefore efficacious."

It is a form of Locock's lotion; you will find a formula given in this issue to another correspondent; you might try it diluted to about half strength.

58/64. *J. Barlow.*—Heading-powder for Ales.—Equal parts of alum and sulphate of iron form the old-fashioned and orthodox heading; but we have seen, a few years since, in your district, a lumpy brownish powder, which seemed a dried aqueous extract of quillaia-bark, and was sold at a fancy price. To Restore Sour or Tart Ale use either carbonate of soda or freshly slaked lime.

52/57. *B. Purst.*—It depends upon the dose of the mixture; say 1s. to 1s. 6d.

56/15. *H<sub>2</sub>O.*—Warklyn's "Water Analysis" (Trübner, 5s.).

59/64. *Country.*—Your harness-blackening is soft, but it is none the worse for that. The additional lampblack would stiffen, but that should be done in preference with wax.

60/29. *Mortar and Pestle.*—Professor Charteris has recommended chlorobrom (a preparation of chloralamide and potassium bromide) for sea-sickness. His paper is printed in the last volume of the *Lancet*, page 517. The Professor gives 1 oz. of chlorobrom (chloralamide and bromide of potassium, of each 30 grs.), and he states that in ten cases where it was given, after the first stage of active vomiting had ceased, it was not rejected. Sleep followed, and there was marked relief from the sickness.



60/69. *Jap.*—Barium-sulphide Depilatory acts by rotting the hair, and thus facilitating its removal. The roots are not affected. The skin may be inflamed if the depilatory remains too long on, and thus produce an eruption. It is as safe a depilatory as auy.

61/45. *Pilula.*—Lady Hesketh's Pills are:—

Pulv. aloes	..	..	..	..	3vj.
" mastic	..	..	..	..	5ij.
Conf. roseæ	..	..	..	..	q.s.

Make a mass, and divide into 3-grain pills.

61/48. *R. S. P.*—The sample is gypsum.

57/26. *Chemicus.*—You say you are a subscriber for many years. Why not give us your name? If you think fit to do so, please repeat your question.

#### Information Supplied.

48/19. *Hart's Solution*—See Hart & Barbour's "Gynecology," page 150, which says:—"Messrs. Duncan & Flockhart, chemists, Edinburgh, have made a special bottle containing 5 oz., with a cup glass stopper, of 1 drachm capacity. The solution is of strength that one cupful added to four tumblers of water (1 quart) gives a solution 1—2,000. This solution contains  $5\frac{3}{4}$  grains of perchloride of mercury and 3 grains of sodium chloride in 1 drachm of water. It may be ordered thus:—

Lotio hydrarg. perchlor.

$5\frac{3}{4}$  grains  $HgCl_2$  and 3 grains  $NaCl$  in 1 drachm of water.

To be dispensed in a special bottle with cup stopper.

Sig.: Poison; for external use."

The quantity of mercuric chloride given here is surely wrong. A quart equals 40 oz., or 17,500 grains, and 17,500 divided by 2,000 gives the required quantity of  $HgCl_2$ —viz.,  $8\frac{3}{4}$  grains—instead of  $5\frac{3}{4}$  grains for 40 oz.

STUDENT. (59/57)

#### Information Wanted.

Replies to the following are requested by subscribers of THE CHEMIST AND DRUGGIST.

61/10. The pharmaceutical coat of arms in crystallograph or gelatine for placing on shop-door to imitate stained glass: where obtainable?

57/4. Composition to take the place of indiarubber to render articles waterproof: where obtainable, or how made?

61/71. Makers of camphylene in square blocks, for urinals.

#### Personalities.

MR. HENRY P. CHANDLER, of the Theatre Drug Stores, Ramsgate, has disposed of his business to Messrs. Arden & Minnikin.

MR. THOMAS SAMUEL HORROD, proprietor of the old-established business of Swire & Co., The Broadway, Brixton Hill, has recently opened a new and handsome shop at Streatham Hill.

MR. GEORGE R. THARRATT, pharmaceutical chemist, lately with Messrs. Clare & Hunt, of Scarborough, has purchased the business of Mr. John Smith, 55 Myrtle Street, Liverpool. We understand that Mr. Smith is leaving the drug trade, and is about to commence business as a fruit-grower in British Columbia.

DR. A. P. LUFF, lecturer on medical jurisprudence, and physician to St. Mary's Hospital, has been appointed official analyst to the Home Office, in the place of the late Dr. Meymott Tidy.

## Medical Cleanings.

### CALCIUM SULPHIDE IN TONSILLITIS.

DR. F. P. NORBURY recommends calcium sulphide for the acute parenchymatous inflammation of the tonsils in strumous patients, which has a tendency towards rapid suppuration. Small doses ( $\frac{1}{8}$  to  $\frac{1}{2}$  grain), frequently repeated, best suit.

### SEA-SICKNESS.

PROFESSOR CHARTERIS, of Glasgow, has a favourable opinion of the value of chloralamide in the treatment of seasickness. Writing to the *Lancet* about a few ailments, he says that chloralamide, in combination with potassium bromide, gave him excellent results in the second stage of the sickness. He prescribes Burgoyne's chlorobrom, giving a tablespoonful to females and a tablespoonful and a half to males. It may be used for short voyages, and Professor Charteris advises these two rules to be observed:—*First*, the passenger should prepare for the voyage by taking for two successive nights an antibilious pill containing mercury and podophyllin. *Second*, when on board, and if the passage be made by the night service, the passenger should avoid taking any food, but retire to the cabin, undress, lie down, and take an ounce dose of the solution.

### SOME HIGHLAND CURES.

A CORRESPONDENT of the *Lancet*, who seems well acquainted with the Highlands of Scotland, writes about the medical folklore there, and mentions amongst rational cures that for whooping-cough some recommend that the child should be taken across a ferry; others that he should above all go to live in another property; others that he should go to a house where master and mistress have possessed the same surname. All these procedures involve change of air, which has in such cases no doubt been found beneficial. On the same general principle, coltsfoot is used in asthma, warts are washed in pig's blood, and a person with weak lungs takes with great advantage a preparation of twenty-four different herbs, which occupy several weeks to collect. An infusion of adders' heads is used as a dressing in snakebite, and, it is said, with excellent results. That is on the homœopathic principle.

THE CATTLE-SPICE TRADE.—The Crown Corn Feed Cake and Chemical Manure Company, of Hull, has sued the *Star* newspaper for damages for an alleged libel. The case came on before Mr. Justice Mathew and a jury in the Queen's Bench Division, on Wednesday and Thursday, but is not finished. The *Star* had published an article, which was summarised by the plaintiffs' counsel as imputing to John Henry Milestone, their manager, that he, under the false pretence of employing tradespeople as agents to sell the goods of the company, entrapped them into giving trade orders for the goods as if sold to them by the company, and compelled them to pay bills of exchange for goods they had never bought; that the plaintiff company and John Henry Milestone were cheats and swindlers, and systematically robbed the public; and that they sold worthless goods, injurious to animals fed on them; and that John Henry Milestone had brought himself within the criminal law. The defendants admitted the publication of the article, but maintained that the words, taken apart from the innuendoes put upon them by the plaintiffs, were true in substance and in fact. It was declared by Mr. Wilt, Q.C., that the company was a most respectable and substantial one, having a turnover of upwards of 40,000*l.* a year; that Mr. Milestone was chairman of the company, and very well known in Hull. The *Star* counsel declared that he did not shrink from the position of justifying the statement made by the *Star*. He should call witness after witness to show that their signatures to orders were obtained by a trick, by representing that they were to be sole agents for their districts. Certain tradesmen, who said they had been induced to sign orders in the belief that they were merely giving the traveller their names and addresses for the company to send them some of the spice on sale or return, were examined as witnesses for the defence.



# CONDY'S POWDER

The Only Dry Preparation which contains the Disinfecting, Purifying, Deodorising, and Antiseptic qualities of Condy's Fluid.

CONDY'S POWDER is intended for those persons who prefer a Disinfecting Powder to a Liquid.

CONDY'S POWDER is extensively advertised, and is in good demand.

Put up in Dredger Tins, only size 1 lb, 1/- each.

Trade Price, 9/- per doz., less usual discounts.

Kept in Stock by all Wholesale Houses.

Chemists who are prepared to Purchase a £5 Parcel of CONDY'S FLUID

ARE INVITED TO WRITE TO

CONDY & MITCHELL, LIMITED, 67 & 68 TURNMILL STREET, E.C.

for Special List of best Wholesale terms, which are now allowed to Chemists ordering £5 worth.

Imitations and Substitutes.

# CONDY'S FLUID

CONDY & MITCHELL, Limited, Proprietors of Condy's Fluid, have recently been compelled to take legal proceedings and have obtained Injunctions, with costs and damages, against several Chemists who had been selling a disinfecting fluid in bottles bearing labels imitating in colour and effect those used by Condy & Mitchell on bottles containing Condy's Fluid.

CONDY & MITCHELL request the trade to be good enough to furnish them, in confidence, with the name and address of all persons imitating the "get up" of Condy's Fluid, or passing off goods made by themselves in execution of orders for Condy's Fluid, so that immediate steps may be taken to put a stop to such dishonest practices.

# BISHOP'S

ORIGINAL  
GRANULAR  
EFFERVESCENT  
PREPARATIONS.

"ALFRED BISHOP" was the Inventor and Original Manufacturer of all Granular Effervescent Preparations. All others are imitations. SILVER MEDAL, HIGHEST AWARD, PARIS, 1889.

**MAGNESIA CITRATE** (1st Quality). We have reduced the price of our best Magnesia as follows:—In  $\frac{1}{4}$ -lb. and  $\frac{1}{2}$ -lb. from 2/2 to 2/- per lb. In 7-lb. or 4 $\frac{1}{2}$ -lb. per cwt. at 1/8 per lb., less usual discounts.

**MAGNESIA CITRATE** (2nd Quality). This is a first-rate article at a low price. It is made as carefully as our best, and will keep quite as well. Excellent for Chemists' own bottling. 1/3 per lb., less usual discount; per cwt. 1/- per lb. nett.

**SALINE.** Made either in powder or fine granules. This is an excellent preparation, made with the utmost care. Sold in bulk in 7 lbs. or 4 $\frac{1}{2}$  lbs. at 1/3 per lb., less usual discount; per cwt. 1/- per lb. nett. Also in 8-oz. and 6-oz. capsuled stoppered bottles, plain or labelled, at 9/- per doz. and 7/3 per doz. nett; per gross 93/- and 80/- nett respectively. Special terms for large quantities.

AND ALL OTHER GRANULAR EFFERVESCENT PREPARATIONS

Price Lists Post Free on application.

None genuine without this Trade Mark.

**ALFRED BISHOP & SONS, LIMD.**

MANUFACTURING CHEMISTS, "Speck's Fields," 48 Spelman Street, LONDON, Eng.





# JAPAN CAMPHOR COMPANY.

## FLOWERS & COMPRESSED BLOCKS OF CAMPHOR

Refined in Japan, of the Highest Quality.

FOR PRICES AND PARTICULARS APPLY TO  
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 LONDON AND CONTINENTAL AGENTS.

## C. F. BOEHRINGER & SOEHNE, WALDHOF, NEAR MANNHEIM,

MANUFACTURERS OF

**SULPHATE OF QUININE, B. and S. Brand, and all other**  
**Quincha preparations, also of ACETANILID, CAFFEINE,**  
**COCAINE, GALLIC ACID, GLYCERINE, SALICYLIC ACID**  
**and SALICYLATES, STRYCHNINE, &c.**

STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.

**AGENTS.**—LONDON: Messrs. DOMBIER & CO., 13 St. Mary-at-Hill, E.C.

„ —GLASGOW: „ F. R. MUELLER & CO., 47 Waterloo Street.

„ —DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.

# SALICYLIC ACID

AND

# SALICYLATES

PHYSIOLOGICALLY PURE

MANUFACTURED UNDER KOLBE'S PROCESS BY

[PHYSIOLOGICALLY PURE]

**J. HAUFF, FEUERBACH - STUTTGART.**

To be obtained from the Sole Agents.

N.B.—Stock kept in London.

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 Telegrams—"FUERST LONDON." Telephone No. 1050.

## MACFARLAN'S PURE CHLOROFORM MACFARLAN'S

A definite Chemical Compound, answering B.P. and all Official Tests.

Has obtained the confidence of the most eminent Surgeons, has been used successfully in the Edinburgh Royal Infirmary, in the Edinburgh Royal Maternity and Simpson Memorial Hospital, and in the most important Institutions both at home and abroad.

## Macfarlan's CHLOROFORM Macfarlan's SPECIALLY PURIFIED.

This preparation is purer than any which has hitherto been placed on the Market.

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1798



# Howards & Sons

QUININE, CINCHONA ALKALOIDS,

Compressed  
Sulphate of Quinine

Manufactured by  
**Howards & Sons,**  
Stratford, Essex.

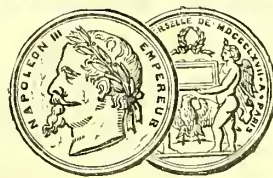
Is  
The Most Portable  
Form of  
Quinine.

Saves Weight.  
Saves Space.  
Saves Freight.

Packed in 1 ounce tins.  
Total weight about 1½ oz.  
Occupying 2½ cubic inches.

AND OTHER PHARMACEUTICAL CHEMICALS.

# Stratford, Essex.



*Detailed Price Lists on application.*



# T. & H. SMITH & CO., EDINBURGH AND LONDON, Are the ONLY MANUFACTURERS of the **SALTS OF MORPHIA**

To whom, at the UNIVERSAL EXHIBITION, in PARIS, 1878, the  
**GOLD MEDAL WAS AWARDED.**

NEW YORK Office—20 Cedar Street: DILLON & CO., Agents.

[2]

**CAUTION.**

## DR. WARLOMONT'S ANIMAL VACCINE.

PATENT No. 4623. 28 SEPT. 1882.

From information which has been conveyed to him, Dr. Warlomont has reason to believe that Animal Vaccine prepared on the Continent in accordance with the invention the subject of this patent is being imported into this country. CHEMISTS and DRUGGISTS—whether Wholesale or Retail—and the MEDICAL PROFESSION generally, are respectfully informed that any importation, sale, or use of such Vaccine would constitute an infringement of Dr. Warlomont's patent rights. The only guarantee of Dr. Warlomont's Vaccine is the Label and Trade Mark of the Association for the supply of Pure Vaccine.

12 PALL MALL EAST,  
LONDON, S.W.



## BATTLE & WATTS,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUGGISTS, CRIPPLEGATE, LONDON.

**EXTRACTS & LIQUID EXTRACTS A SPECIALITY.**

LISTS SENT POST FREE ON RECEIPT OF BUSINESS CARD. PLEASE COMPARE PRICES.

## LOFTHOUSE & SALTMER, MANUFACTURING CHEMISTS, WHOLESALE AND EXPORT DRUG MERCHANTS, HULL.

Manufacturers of all Pharmaceutical Preparations on the best and most improved principles. Quotations on Application.

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For Medicinal, Photographic, and Commercial purposes.

Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all



Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

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SPECIAL AGENTS FOR

SICILIAN SUBLIMED SULPHUR, in 2-cwt. bags and casks; and

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Most favourable quotations to Wholesale Dealers on application.

Special quotations for Grinding Drugs; also for ANISEEDS, CARAWAYS, FENUGREEK, GENTIAN, GRAN. PARAD., &c., in Powder.

PURE CRUSHED POULTICE-LINSEED. "CROWN" BRAND.

Carefully prepared and guaranteed Genuine. 16s. 6d. per cwt. net, in Hull. Write for Samples.



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## **JOHN RICHARDSON & CO. LEICESTER, LIMITED,**

*Having discovered that Orders intended for them have, under misapprehension, been directed and sent by post to a wrong address, request that all communications may bear the above name in full, and be forwarded to the SOLE BUSINESS ADDRESS of the firm,*

**10 FRIAR LANE, LEICESTER.**

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**JOHN RICHARDSON & CO.  
LEICESTER, LIMITED.**

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**Established 1793.      ✠✠✠      Incorporated 1891.**



**➡ NOW ON THE MARKET. ⬅**

# LACTOMALTINE! LACTOMALTINE!! LACTOMALTINE!!!

(ANDERSON & CO.'S REGISTERED.)

*Highest praise from the Medical Profession. Malted Milk condensed in our own vacuum apparatus, as used at the Royal Hospital for Sick Children, Edinburgh, and at the Royal Hospital for Sick Children, Glasgow.*

## EXTRACT OF MALT.

**"GENUINE."**

Free from Glucose or Benzoate of Sodium.

**NEVER SOLIDIFIES.**

Prepared by a special process from the finest Malted Barley.

*Samples and Quotations on application.*

Extract from THE CHEMIST AND DRUGGIST, November 21, 1891:—"Trade Notes"—"Messrs. Anderson & Co., Murano Place, Edinburgh, send us a sample of extract of malt manufactured by themselves, and supplied in bulk or bottles. The extract is of medium amber colour, of rich diastase flavour and odour, and we found on testing it that it is possessed of full digestive power. A solution of 2 drachms in 4 oz. of water instantly liquefied a mucilage of 120 grains of arrowroot in 5 oz. of water at 50° C., and in three minutes the mixture ceased to give the blue iodine starch reaction, only a pale brown colour being produced at the end of four minutes. Apparently therefore, this extract is carefully made and reliable."

## NOTE THESE OPINIONS.

A. N. McALPINE, B.Sc. (Lond.), Lecturer on Botany, School of Medicine, Edinburgh, reports, on May 9, "that he compared 'Lact-maltine' with other preparations of a like nature, and has satisfied himself that its starch-altering or diastatic power is conspicuously the greater."

Dr. STEVENSON MACADAM says "that 'Lactomaltine' is highly nutritious, and rich in digestive properties. It is decidedly palatable, and will prove a valuable aid in the assimilation of ordinary food."

Mr. J. FALCONER KING, City Analyst, Edinburgh, reports "that 'Lactomaltine' is capable of converting *five times its weight of starch* in about three hours, and is more than a *hundred times stronger* than a sample of malted milk obtained through one of the best pharmaceutical chemists in Edinburgh."

1/6 size, 10/6; 2.6 size, 18/- per doz.

## EXTRACT OF MALT WITH COD LIVER OIL.

THE CHEMIST AND DRUGGIST reports, May 21, 1892:—"Messrs. Anderson & Co., of Murano Place, Edinburgh, send us a sample of Malt Extract and Cod Liver Oil which they have recently improved. This is a semi-fluid preparation, in which the oil is combined with the extract without gummy emulsification, and it does not separate. The taste of the oil is admirably covered without bringing into prominence the taste of the flavouring ingredients. The preparation is supplied in bulk or bottled."

10d. lb.; 28 lbs., 75/- per cwt.; cwt. 70/-. Bottled, 1/- size, 8/6; 2/- size, 16/- doz.

**ANDERSON & CO., Wholesale Manufacturing Chemists, 12 MURANO PLACE, EDINBURGH.**

## THE NEW LAXATIVE.

# MALTO-RICINOL

(KINGSFORD).

Possessing the well-known aperient properties of the finest Italian Castor Oil, combined with the Tonic and Digestive characteristics of Pure Malt Extract, in an exceedingly palatable form. Children and delicate females take it readily, and easily digest it. Its action is mild but reliable. The taste of the oil is quite indiscernible.

**CONTAINS 50 PER CENT. OF CASTOR OIL.**

**DOSE**—Children: Half to Two Teaspoonfuls. Adults: One to Two Tablespoonfuls.  
In Bottles, 1s. and 2s. 6d. 8s. and 18s. per doz.

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### Special NET CASH List.

*In Ten Gross and One Pound Tins for CASH WITH ORDER.*

		Per gross.	Per lb.
Pil. Aloes et Ferri, P.B. ... ..	...	6d.	4/-
„ Colocynth. Co., P.B. ... ..	...	11d.	8/-
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„ Rhæi Co., P.B. ... ..	...	6d.	4/3
<b>APERIENT.</b> 105 (Each Pill contains $\frac{1}{2}$ gr. of Calomel)	...	6d.	4/3
106 As No. 105, with 1 gr. Calomel in each Pill	...	6d.	4/6
107 As No. 105, without Calomel	...	6d.	4/3
110 Hospital Pills, each containing $\frac{1}{2}$ gr. of Calomel	...	6d.	4/6
<b>ANTIBILIOUS.</b>			
62 Hydrarg. Pil. gr. i ; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	1/-	...	8/6
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<b>COUGH.</b>			
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hispan. gr. ss.	7d.	...	5/-
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. $\frac{3}{4}$ ; Pulv. Capsici; Pulv. Opii aa. gr. $\frac{1}{4}$ ; Pulv. Gum. Ammon.; Ext. Conii aa. gr. i.	8d.	...	5/6
<b>CASTOR OIL.</b>			
289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hyps.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. $\frac{1}{18}$	6d.	...	4/-
<b>TONIC.</b> 370 (Blaud's Formula)	6d.	...	4/-
371 (Blaud's Formula, Martindale's improved)	6d.	...	4/-
<b>"LITTLE" APERIENT.</b> 458	5d.	...	20/-
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Samples of the above with our Complete List sent on application.

*In ordering, please note Address, and see that the Label on each Bottle or Tin corresponds with the above Block.*



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**GEO. MASON & CO.'S  
ESSENCE OF BEEF.**

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Order No. 12000.

"Please supply 120 tins Mason's Essence of Beef as before."



TRADE MARK.

**"O.K." BOUILLON.**The "O.K." Bouillon is the best and cheapest Beef Tea ever  
put before the public. It is made in England from British  
Beef. It can be sold as low as 6d. per tin.

CONCENTRATED BEEF TEA, MEAT LOZENGES.

**MASON'S MALTED FOOD FOR INFANTS.**

PRICE LISTS POST FREE.

417 &amp; 419 Kings Road, Chelsea, London. S.W.

SEA-SICKNESS—A THING OF THE PAST.

**"NEPTULINA,"**

(REGISTERED TRADE MARK, No. 158940.)

A New and Marvellous Remedy which absolutely PREVENTS and CURES

**SEA-SICKNESS.**

Retail Price, 2s. 9d. and 4s. 6d.

Price to the Trade, 27s. and 44s. Doz. Full Retail Price must in all cases be charged; no  
cutting allowed. Wholesale London Depot, Messrs. NEWBERRY & SONS. Agent for the  
Proprietor, JOHN NOBLE, M.P.S., Chemist, South Shields.

Her Hawaiian Majesty's Consulate General, Toronto, 30th September, 1891.

DEAR SIR,—I used a bottle of your "NEPTULINA" on the voyage from Liverpool to New York by the "Etruria," arriving on the 26th inst  
and although we had a rough passage I entirely escaped Sea-Sickness.

Yours truly,

J. ENOCH THOMPSON, J.P., Hawaiian Consul General.

[This gentleman reported that in all previous voyages he suffered from Sea-Sickness.]

**"SEQUAH'S OIL."** (Regd.)

43

**SEQUAH'S PRAIRIE FLOWER,**

SEQUAH'S OIL, AND

**SEQUAH'S INSTANT RELIEF**

Always give satisfaction.

**SEQUAH, LIMITED, 44 FARRINGTON ST., E.C.**SPECIAL NOTICE.—At the request of a large number of the Retail Trade, who are  
desirous of obtaining small quantities of our Goods at the lowest possible  
prices, we beg to inform the Trade that we have decided to supply the Goods  
in dozen lots, carriage paid, at our lowest terms—viz., 18/6 per dozen, Cash  
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TRADE MARK.

**"SEQUAH INDIAN  
PRAIRIE FLOWER."**

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# MRS. WINSLOW'S SOOTHING SYRUP

## FOR CHILDREN TEETHING,

Greatly facilitates the process of Teething, by softening the gums, reducing all inflammation; will allay ALL PAIN and spasmodic action, and is

**SURE TO REGULATE THE BOWELS.**

Depend upon it, Mothers, it will give rest to yourselves, and

## RELIEF & HEALTH TO YOUR INFANTS.

### Mrs. WINSLOW'S SOOTHING SYRUP

Has been used for over Fifty Years by Millions of Mothers for their children while teething with perfect success. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for diarrhoea.

Sold by Chemists and Druggists in every part of the world, 1s. 1½d. per bottle.

## THE MEXICAN HAIR RENEWER.

Prevents the hair from falling off.

Restores Grey or White Hair to its ORIGINAL COLOUR

Being delicately perfumed, it leaves no unpleasant odour.

Is NOT a dye, and therefore does not stain the skin, or even white linen.

Should be in every house where a HAIR RENEWER is needed.

OF ALL CHEMISTS AND DRUGGISTS. PRICE 3s. 6d.



### NOTICE.

THE MEXICAN HAIR RENEWER may now be obtained in New York from the ANGLO-AMERICAN DRUG Co., 217 Fulton Street, and all Druggists.

## FLORILINE

FOR THE TEETH AND BREATH.

Is the BEST LIQUID DENTIFRICE in the World.

Prevents the decay of the TEETH.

Renders the Teeth PEARLY WHITE.

Removes all traces of Tobacco-smoke.

Is perfectly harmless and delicious to the Taste.

Is partly composed of Honey, and extracts from sweet herbs and plants.

Of all Chemists and Druggists throughout the World.

2s. 6d. PER BOTTLE.

FLORILINE TOOTH POWDER only, in glass jars. Price 1s.

## THE ANGLO-AMERICAN DRUG COMPANY, LIM.

33 FARRINGDON ROAD, LONDON, PROPRIETORS.



# BOOT'S PURE DRUG CO., LIM.

## DISPENSING AND FAMILY CHEMISTS,

### PATENT MEDICINE VENDORS & DEALERS IN MEDICINAL WATERS,

Having some twenty branches in NOTTINGHAM, SHEFFIELD, LINCOLN, DERBY, GRIMSBY, ILKESTON, GRANTHAM, and BURTON-ON-TRENT, have exceptional opportunities of bringing Proprietary Articles before the public, and they will be glad to take up special agencies for articles of sterling merit where the proprietors are willing to meet their efforts to make a push of the same. Careful supervision of the distribution of advertising matter will be undertaken. Correspondence invited.

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<b>'COAGULINE'</b> The Cement for all Broken Articles. <b>LINSEED</b> Choro-Linseed and Throat Lozenges, &c.	<b>'LAVA' CEMENT.</b> A facile impalpable Patent Glass Tubes For Feeding Bottles.	<b>COMPOUND ESSENCE OF LINSEED,</b> <b>OXYMEL SCILLÆ</b> (exceptionally brilliant) Dec. Benzoe Cones <b>PHOSPHOSACCHARITE</b> <b>GLYCERINE</b> Linum Glycerinum.	<b>'SAPO-LINI'</b> LINSEED SOAP, IN "BROWN WINDSOR," AND "ROSOTTO."	<b>CHEMICAL Disinfectant</b> <b>EMOLLIENT</b> For Chapped Hands, &c. <b>ELASTIC STOCKINGS, KNEECAPS, SOCKS, ETC.</b> <b>'THERMORE' HEAT RADIATOR.</b>	<b>TIC PILLS,</b> LINUM CATHARTICUM PILLS, ABSORBENT PELLETS, &c. <b>GUN COVER and CARRIER.</b>
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Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

**KAY BROTHERS LIMITED, ST. PETERSGATE MILLS, STOCKPORT,** Laboratory and Works, Founded A.D. 1786. Incorporated 1887.

# VINACOCA

Embracing the Therapeutic Properties of the COCA Plant, blended with the best Madeira.

## COCA FOR TROUBLESOME THROATS.

VINACOCA is a direct stimulant of the most active kind, supporting life in a manner almost miraculous, without disturbance of the vital functions. For the voice, a wineglassful before any ordeal is sufficient. Its effect upon the vocal cords is surprising, and of great value to Public Speakers, Professional and other Singers, and Lecturers.

The VINACOCA is carefully prepared from the best Coca Leaf only. (No addition of Cocaine.)

**ONLY ONE WINE (CHOICE MADEIRA)  
ONE QUALITY (A1)  
ONE PRICE** } **THE BEST & CHEAPEST ON THE MARKET.**

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail. Usual Trade Discount. Pamphlets for distribution, carriage paid.

COCA is prepared in various forms: COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, STAMIN (Coca and Beef Extract), COCA TOBACCO, &c.

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Is a Perfect Remedy for Coriza or Cold in the Head. Highest opinions from Public and Press.

Retail Price, 1s. 1½d. per Box.

FULL PARTICULARS FROM

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# LEO & CO.'S COMPRESSED DRUGS

Maintain their high reputation against all comers for general excellence of quality and finish.

## SPECIAL LINES.

	1 lb.	7 lbs.
CHLORATE OF POTASH - - - -	1/-	/11
CHLORATE OF POTASH AND BORAX - -	1/-	/11
COMPOUND SULPHUR - - - -	1/-	/11
SODA BICARB. - - - -	1/-	/11
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NET CASH WITH ORDER.

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A FULL ASSORTMENT OF COMPRESSED GOODS KEPT. PRICES ON APPLICATION.

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## JOHN SANGER & SONS

Patent Medicine Vendors,

DEALERS IN

DRUGGISTS' SUNDRIES,



LOZENGES,

Mineral Waters, Perfumery

And TOILET REQUISITES.

JUST ISSUED,

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CLIMATES.**

**WHITE AND ODOURLESS.**

Old or damaged stock ex-  
changed for fresh goods.

**G. & G. STERN,**



Pamphlets for distribution  
and Show Cards sent free on  
application.

**PRICE TO THE TRADE.**

Bottles	1/	2/	5/
Per doz.	9/6	19/	47/6
Per gross	105/	210/	525/

62 Gray's Inn Road,  
**LONDON, W.C.**

# TASMANIA EUCALYPTUS OIL COMPANY

DISTILLERS OF ABSOLUTELY PURE

## EUCALYPTUS (GLOBULUS) OIL

AND OF

## EUCALYPTUS (GLOBULUS) EXTRACT

"PLATYPUS BRAND."

First Award and Gold Medal Tasmanian Exhibition, 1892. Orders now being booked for the coming winter's requirements. Apply for information and Samples to the Company,

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Who have acquired by purchase Mr. H. D. CUSHMAN'S PATENT MENTHOL INHALER, and have had the agreement duly registered at the Patent Office, on the 21st April, 1892, in their name, by Mr. E. B. Lawes, Solicitor, 11 Queen Victoria Street, E.C., hereby announce that they have reduced the price of CUSHMAN'S PATENT MENTHOL INHALER to sell at 1s. 6d. Retail.

In connection with Mr. Cushman, they have also patented a New MENTHOL INHALER to sell at 1s. Retail.

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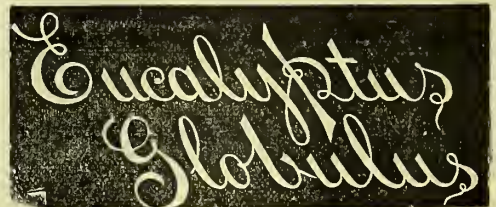


THE  
**ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH**  
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SOLE AGENTS FOR

**DR. WARLOMONT'S CALF VACCINE.**

Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 5s.  
**HUMAN VACCINE**, from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1s. 6d. each; Tubes one-third full and Lencet-charged points, 1s. each; Pin-points, 1s. 12. each. Eighteen charged Small Points, 5s. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccine Ejectors, 1s. 3d. each including postage. Vaccinations by appointment. P.O.O.s including postage, and crossed London and Westminster Bank) with orders, payable to **EDWARD DARRÉ, Secretary.**  
Office hours, 10 to 4. Saturdays 10 to 2.



The undersigned call the attention of Medical Men and Pharmacists to the superior nature of their

### Pure Oil of Eucalyptus Globulus,

distilled by them from leaves of Blue Gum trees cultivated in California. It should be noted that the reputation of Eucalyptus Oil is solely based upon the virtues of the Globulus variety; but very little of this now comes into the market from Australia, because it can only be produced there at from 15s. to 20s. per lb.

The DOWNIE B. I. P. CO. have extensive forests of Blue Gum trees in California, grown from Australian **E. GLOBULUS** seeds. The leaves of these trees are used for manufacturing an aqueous extract, as a boiler-incrustation preventive, and the company have lately perfected the means for collecting the Essential Oil. This Oil is of great purity, is unmixed with kindred bodies, and contains the full percentage of Eucalyptol. Since it is obtained as a by-product, the manufacturers place it on the market at a price which in other circumstances would be impossible.

Please specify "DOWNIE'S" in ordering through any Wholesale House, as there are many adulterated and worthless varieties in the market.

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(NEW YORK, U.S.A. ESTABLISHED 1794.)

## SOLUBLE PILLS AND GRANULES

IN TASTELESS TRANSPARENT COATING.

Unequalled for Purity in Composition, Solubility in Coating, Uniformity in Size, Perfection in Form and Finish.

### NUMEROUS GOLD & SILVER MEDALS AWARDED.

1. The best materials are used in their manufacture.
2. The Pills are Coated while soft.
3. The Coating is perfectly soluble, and dissolves quickly, there is no sub-coating of any kind.
4. The Coating is so thin that the pills are not perceptibly increased in size, and yet it entirely protects them and effectually covers any nauseous taste.
5. The Coating is so transparent as to clearly reveal the colour of the mass, and its solubility is not impaired by age.
6. The mass is worked to the highest possible degree of uniform intermixture, and subdivided with scrupulous exactness.
7. Vegetable or organic matters are not charred, nor are volatile principles lost, by the use of heat at any time throughout the process of manufacture.
8. The excipients are specially adapted to the permanent solubility of the mass and its efficient therapeutic action.

*Price List of Pills and Book of about 400 useful Formulæ (including those of the British Pharmacopœia) sent free on application.*

**POTTER & SACKER** (Sole Agents for Great Britain and Ireland), 80 Fenchurch Street, LONDON, E.C.

## BEECHAM'S TOOTH PASTE.

All Chemists, Druggists, and Stores should Stock this new article, which is being well advertised, and, as it is a really good speciality, will shortly be in great demand. It is put up in collapsible tubes, retail price 1/-, and can be obtained from any Wholesale House.

## BEECHAM'S PILLS

The most saleable Patent Medicine in the market.

In Boxes 9½d., 1s. 1½d., and 2s. 9d. each.

HOME RETAILERS desirous of exhibiting Iron Tablets, Showcards, or Dummies, and wishful to have a good supply of Handbills, Beecham's Oracles, Music, &c., are requested to notify their requirements to the Proprietor,

**THOMAS BEECHAM, St. Helens, LANCASHIRE.**



# HAWLEY'S COUNTER ADJUNCTS.

With Chemist's own name and address printed free for 3 dozen.

"The Counter Adjunct," a monthly leaflet of novelties in Materia Medica and Adjuncts, post free on application.

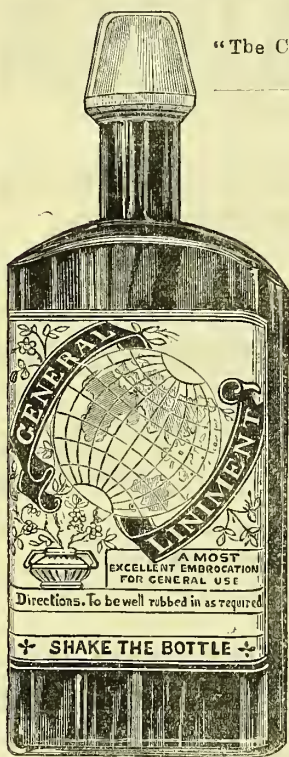


Fig. 1.

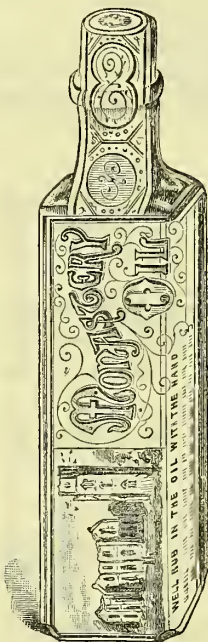


Fig. 2.



Fig. 3.

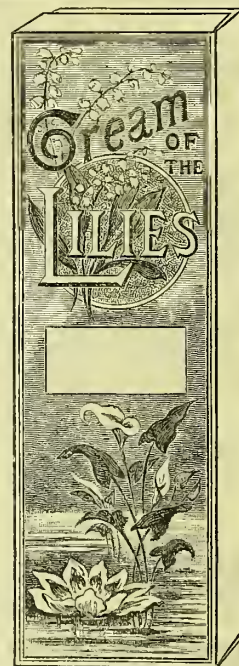


Fig. 4.

## GENERAL LINIMENT

## MONASTERY OIL

## HAIR DYE

## CREAM OF THE LILIES.

FIG. 1.—This particularly excellent family remedy has had a remarkable success.

In amber, stoppered, round-edged bottles.

Price.—6d size, 3/9; 6 doz. 3/6. 1/- size, 7/-; 6 doz. 6/6. 1/6 size, 10/6; 6 doz. 10/- 2/- size, 13/6; 6 doz. 13/-

FIG. 2.—This efficacious, transparent, brownish-red Liniment was brought out to meet a special demand. The wording of the beautiful label can be changed.

In long square bottles, retailing at 1/-

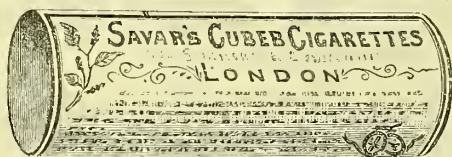
Price.—7/- doz.; 6 doz. 6/6; 12 doz. 6/-

FIG. 3.—A really good and effective Hair Dye. In two 1½-oz. flats, with directions. In neat card cases, provided with fancy labels of two patterns.

Price—Retail, 1s. 6d., 12/-; 6 doz., 11/6 per doz.

FIG. 4.—An innocent Cosmetic, whitening and beautifying the skin.

Price.—6d. size, 3/6 doz.; 6 doz. 3/3; 12 doz. 3/- 1/- size, 6/-; 6 doz. 5/9; 12 doz. 5/6. 1/6 size (carton), 11/-; 6 doz. 10/6; 12 doz. 10/- 2/6 size (carton), 18/-; 6 doz. 17/-; 12 doz. 16/-



## SAVARS CUBE CIGARETTES.

Relief in Influenza, Asthma, Throat Cough, Bronchitis, Hay Fever, against Fogs.

Boxes, 9s. and 24s. per dozen.

## EVANS, LESCHER & WEBB,

60 BARTHOLOMEW CLOSE,

## LONDON.

LIVERPOOL:

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MONTREAL (CANADA):

EVANS AND SONS (LIM.).



PARIS EXHIBITION, 1889.

PRIZE MEDAL AWARDED TO



# "SALVO PETROLIA"

Absolutely Genuine Paraffinum Mollé of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—  
WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.  
PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs. Also in 3-cwt. Casks.

# "OLEUM DEELINÆ"

(REGISTERED).

UNIVERSALLY ADOPTED BY THE MEDICAL PROFESSION FOR  
OPHTHALMIA, SCURVY, RINGWORM, ECZEMA,  
AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.  
Pint Bottles, 4s. 6d. each, for Hospitals and Dispensing  
Chemists.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

# "Edible Salvo Petrolia"

For Public Speakers, Actors, and Singers.  
1s. 6d. per Tube.

The above are Manufactured Solely by the Proprietors,

## THE DEE OIL COMPLY.

LIMITED.

Works—SALTNEY, CHESTER.

OFFICES—

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Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff,  
Bristol, Belfast, Barrow-in-Furness, Nottingham,  
Paris, Hamburg, &c.

## Concerning Our Pills.

We beg to remind our agents that we sell two preparations—viz., Guy's Tonic and Guy's Fruit Pills. Nearly every Chemist now stocks and sells the Tonic, but we have found that many purchasers have experienced a difficulty in obtaining the Pills, as some Chemists only procure them to order. They are usually required in association with the Tonic to secure the best results, and instructions to this effect accompany each bottle of Guy's Tonic. It is quite evident, therefore, that wherever Guy's Tonic is in demand Guy's Fruit Pills will be inquired for. We ask you, then, in mutual interest, to hold a small stock to supply this certain need.

Guy's Tonic is sold Retail at 2/9 per Bottle, Guy's Fruit Pills at 1/1 and 2/9 per box.

For further information and trade terms, address  
Guy's Tonic Company,

4 Ludgate Circus,

London, E.C.

## DR. PAUL'S HIGH-CLASS MANICURE SPECIALITIES,

Certified as innocuous by eminent English and  
American Chemists.

	Retail	Wholesale per doz.
<b>CERAMINE.</b> For tinting Finger Tips, Face and Lips.....	2/6	18/-
<b>POUDRE LUSTRALE.</b> Gives a brilliant shell-like transparency to the Nails	2/6	18/-
<b>CRÈME CAMÉLIA.</b> Restores Rough and Chapped Skins to their original softness .....	2/6	18/-
<b>NAIL OLEATE.</b> Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c. ....	1/6	10/6
<b>CLEANSING FLUID.</b> Instantly removes all stains from the surface and underneath the Nails .....	2/6	18/-
<b>FACE AND HANDS LOTION.</b> Softens the Skin and removes all discoloration ....	4/6	33/-
<b>EMERY BOARDS.</b> For bevelling the rough edges of the Nails after use of the file .....	1/-	7/-

**ORANGE WOOD STICKS.**  
A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

**CAUTION!**—Dr. Paul's Specialities can be obtained at all first-class Perfumers' and Chemists', but many imitations are offered at inferior Stores.

WHOLESALE AGENTS:

OSBORNE, GARRETT &amp; CO., FRITH STREET, LONDON, W.C.



# SEASONABLE LINES FOR SUMMER & SEASIDE TRADE

## CHECK SPONGE BAGS. BEST QUALITY.

Size	7×6	8×7	9×8	10×9	11×10	12×11
No.	1	2	4	4	5	6
Per doz.	4/6	5/6	7/-	8/6	10/-	12/-

## SECOND OR THIN QUALITY.

No.	1	2	3	4	5	6
Per doz.	3/6	4/-	5/-	5/6	6/3	7/3

## INSECT-POWDER TINS

	1/-	1d.	3d.	1d.
Per gross	9/-	7/9	5/6	2/3

## FLESH GLOVES.

6d. In glass top boxes, per box..	3/3	Per doz.
3d. Turco .. .. .	2/-	
6d. „ .. .. .	2/8	
6d. No. 42, rough .. .. .	2/3	
6d. Sahara .. .. .	3/3	
6d. Eastbours .. .. .	3/3	
1/- Turco .. .. .	4/6	
1/- Super Turco .. .. .	5/6	
1/- Monte Carlo .. .. .	5/6	
1/- Victoria .. .. .	6/-	

## SMELLING-SALT BOTTLES.



Fig. 238a.

	Per doz.
6d. Watch .. .. .	2/6
6d. Assorted Colours .. .. .	3/6
9d. Octagon, clear glass .. .. .	4/-
6d. Purse Watch .. .. .	4/6
1/- „ .. .. .	7/-
1/- China (as Fig. 238a) .. .. .	8/-
1/6 Octagon Bottle, clear cut stopper	9/-

**F. NEWBERY & SONS, Druggists' Sundriesmen, 1 & 3 King Edward St., London E.C.**

## S.V.R., B.P.

We wish to draw the attention of Chemists to the excellence of the spirit we supply for pharmaceutical purposes. We have devoted great care and attention to this branch and have made it a leading line. That our efforts in this direction have been appreciated is proved by the number of *unsolicited* testimonials we have received from nearly every town in the country, of which the following is a specimen:—

GENTLEMEN,—

Please send 5 gall. 56 op. as before. I have pleasure in saying I have always found your spirit answer all tests, which is more than I can say of all I have had from different places, and also to be practically free from odour.

Messrs. Stephen Smith & Co.

The Pharmacy, Morecambe.

Yours faithfully, JOSH. N. CUTTS, B.Sc., F.C.S.

## SPECIALITY FOR PERFUMERY.

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

**STEPHEN SMITH & CO., BOW, LONDON, E.**

**S <sup>0</sup>/<sub>56</sub> V <sup>0</sup>/<sub>60</sub> R**  
19/4 19/10

PERFECTLY PURE.

FIT FOR ANY PURPOSE.

**PURE ORANGE WINE.**

NET CASH

WITH ORDER.



**S <sup>0</sup>/<sub>61</sub> V <sup>0</sup>/<sub>64</sub> M**

AT LOWEST PRICES.

Special Terms to Large Buyers.

**PURE GINGER WINE.**

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

**BOORD & SON,**

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,  
ALLHALLOWS' LANE, & BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.  
FINEST ORANGE WINE FOR QUININE.

**JAMES BURROUGH, S.V.R.**

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.



# TOMBAREL FRÈRES

GRASSE

ALPES MARITIMES



FRANCE

## DISTILLERS OF ESSENTIAL OILS

Orange, Rose, and Elder Flower Waters,

MANUFACTURERS OF

## FLOWER POMADES, PERFUMED OILS, FLOWER EXTRACTS.

SPECIALITY OF THE HOUSE: CONCRETE FLOWER ESSENCES (ESSENTIAL OILS).

Special Products for Manufacturing Perfumers and Toilet Soap Makers.

## ALMOND AND OLIVE OILS.

PRICE LIST ON APPLICATION.

Depot and Agency—**BARLIN & FIELD, 16 MARK LANE, LONDON, E.C.**

PURE FRENCH ESSENTIAL OILS.

# SOZIO & ANDRIOLI,

(Alpes Maritimes) GRASSE (France). [ESTABLISHED A.D. 1757.]

**SPECIALITIES:** Neroly, Lavender, Geranium (twice rectified on Rose Flowers), Thyme (red and white), Spike Lavender, Rosemary, Patchouly, Sandal Wood, &c., &c.

**ONLY MAKERS OF THE CELEBRATED ORRIS ROOT OIL**, crystallizing at + 15° Reaumur.

Flowers Pomades at the highest possible Saturation. Best Brand for Orange Flowers and Rose Water. Concentrated Essences, Sweet Almond Oil, &c. Stock kept in London.

London Agent—**MR. FREDK. BOEHM, 4 CULLUM ST., E.C.**

Heinrich Haensel's TERPENELESS CONCENTRATED Non-Clouding

# OIL OF LEMON

*Oleum Limonis sine terpeno* (Heinrich Haensel).

Spec. gravity 0.9003 (vide Professor Dr. Geissler's report in 1881). Boiling point between 225° and 235° C. Absolutely soluble in diluted spirit. Purest and most powerful Aroma and Taste. Pre-eminently suitable for making Soluble Essence of Lemon, for which **EVEN PROOF SPIRIT** may be used.  $\frac{1}{4}$  drachm of Heinrich Haensel's Terpeneless Concentrated Non-Clouding Oil of Lemon (dissolved in same quantity  $\frac{1}{4}$  drachm, alcohol 60 o.p.) is more than sufficient to 1 gallon of Syrup of extra-superfine quality for making Lemonade of a remarkably pure and sweet Lemon bouquet.

**CAUTION.**—Beware of useless imitations which are being offered under similar names but are not completely free from terpene, and therefore of much less solubility and less value.

FOR FURTHER PARTICULARS APPLY TO

**WILLIAM POPPELREUTER, 54 PORTLAND STREET, MANCHESTER.**

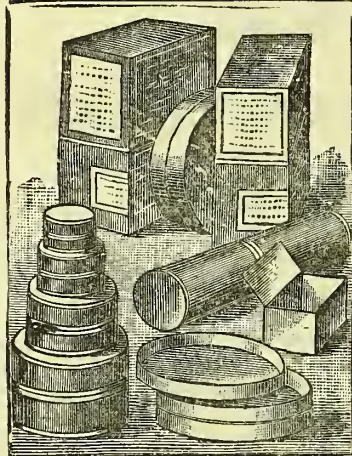


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**VANILLOES**, 9s. and 12s. lb. **TONQUIN BEANS**, 2s. and 3s. 6d. lb.  
**SENNA LEAVES**, 1½d. lb. in 56-lb. bags. **POWDERED ORRIS**,  
 1s. 3d. lb., 120s. cwt. **QUININE**, 1s. oz., 100-oz. tins, 1ld. **CAMPHOR**  
 (Refined), bells or flowers, 1s. 7½d. lb. **GUM**, good, strong, and thoroughly  
 soluble, 6d. lb., 50s. cwt.

*Above prices are Net Cash, ex our Warehouse, and subject to being Unsold. Other lines at proportionately low prices.*

PRICE LIST FREE. SEND A TRIAL ORDER TO  
**G. VOGT & CO.**, WHOLESALE AND EXPORT DRUGGISTS,  
 28 WILSON STREET, LONDON, E.C.  
 TELEGRAMS—"ALSACE LONDON."



## AUSTIN & CO.

Patentees and Manufacturers of FANCY CARD

### ROUND, OVAL, AND SQUARE SHAPED BOXES

FOR POSTAL AND GENERAL PURPOSES.

ALSO PATENT BARREL PACKAGES WITH METAL ENDS, FOR DRY GOODS,

AND

Makers of best class of Violet Powder Boxes, and high-class goods of every description for Perfumery, &c.

8 GREVILLE ST., HATTON GARDEN, LONDON, E.C.

STEAM WORKS, 2 PRINTER'S BUILDINGS.

[2]

## THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

*Used in the Royal Laundries.*

*Should be used in Every House.*

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.



REGISTERED No. 40,376.

*Once Tried, Always Wanted.*

*Makes Old Linen like New.*

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried.

To Mr. CRITCHLEY.

E. ELDER.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

**T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, BLACKBURN.**  
 LONDON DEPOT—2 BEECH STREET, E.C.

AS A POLISH THE CLEANEST, BRIGHTEST, AND BEST.

# PYN-KA

THE POLISHING TABLET (Unsurpassed). AWARDED GOLD MEDAL.

Cleans with a Brilliant Polish Brass, Copper, Silver, Gold, White and other Metal, Electroware, Glassware, and other domestic articles. For Restaurants, Hotels, Bars, and Bicyclists.

TESTIMONIAL FROM A LADY.—"Your 'PYN-KA' Sample is the best I have tried, and we shall use no other cleaning preparation in our house. It will, I am convinced, supersede all other Polishing Pastes."

For Wholesale Terms apply to the Sole Vendors—

**THE PYN-KA SYNDICATE, LIMITED, 41 LORD ST., LIVERPOOL.**





PROVISIONAL PATENT, No. 1111.

## A1 "ROLLER" MENTHOL

The most sensible pattern yet brought out, as it won't break! 3/8 dozen carded.

*The Chemist and Druggist* says:—"Messrs. Shirley claim that it is so strong that if accidentally dropped it does not break—an assertion of which we have proved the correctness by repeatedly dropping the cone upon the floor from a height of 6 or 7 feet. The cone shape, in which Menthol is generally made, easily breaks, and much of it is therefore wasted, whereas the rolling-pin shape may be used right up to centre."

*Above evidence is sufficient to show this is the best shape yet brought out.*

**WONDERFUL VALUE!**

## 3d. TONIC CUP

1 dozen on a Card, 2/ dozen.

The Tonic Cup is almost unknown to the bulk of the public, but would readily sell if produced at a reasonable price, and in a form "to catch the eye." We have endeavoured to do this, and to create a trade in what should be much more widely known.

*Full directions as to its uses, &c., on card and cups.*

# ETIENNE'S PERFUMES.

1d. Tubes ... ..	8/ gross.
2d. Bottles ... ..	14/ "
3d. Sprinklers ... ..	2/ doz.
(All above carded)	
6d. Ring Bottles, stoppered ... ..	4/ doz.
6d. 1/2 oz. Essences, sprinkler ... ..	3/9 "
6d. 1/2 oz. " capped ... ..	3/6 "
6d. 1/2 oz. Lundborg's ... ..	3/6 "
1s. Lundborg's stoppered, 1 cz. ... ..	8/ "
2 oz. " " ... ..	13/ "
4 oz. " " ... ..	24/ "
1 oz. Fancy Bottles... ..	8/ "
1 oz. Heavy Essence, cut stopper... ..	8/ "
1d. Eau de Cologne ... ..	8/ gross.
3d. Eau de Cologne ... ..	1/10 doz.

## SMELLING BOTTLES, SPRAYS, AND ODORATORS AT FABULOUS PRICES.

As we require the space our stock of these goods takes up for manufacturing purposes, we are selling off at extraordinary low prices.

For 20/- postal order, we send 23/- goods.

## ALL CAPITAL GOOD SELLING PATTERNS

WATCHES, TOILETS, &c.

*When ordering, mention selling prices, as a guide in choosing.*

**SATISFACTION CERTAIN.**

**SPECIALLY**

## ATTRACTIVE LINES

IN

## SMELLING SALTS.

No. 328.—Flask shape, assorted colours, metal screw cap 16/- gross empty, 21/- filled.

Nes. 308-9, 324.—Assorted fancy stoppered watches, boxed—charming goods—39/- gross empty, 48/- filled.

No. 1.—Watch shape, screw metal cap, 1 dozen in a box, 2/- doz., 20/- gross, 18/- cash with order, filled.

No. 186.—Flat china bottle, filled with Everfresh Salts, carded; empty 24/- gross, filled 30/- gross.

1d. Oval, carded, wonderful value, 8/- gross. Special price in quantity.

*SHIRLEY'S SPRING LIST SENT POST FREE ON APPLICATION.*

**ARTHUR W. SHIRLEY, 55 Farringdon Road, LONDON, E.C.**



IF  
YOU BUY

## TURNUED WOOD GOODS

OF ANY DESCRIPTION, WRITE TO

**B OX & CO., STEAM TURNERS, 84 GT. SUFFOLK ST., BLACKFRIARS, S.E.**

Wholesale Houses and Large Buyers liberally treated.



ESTABLISHED 1830.

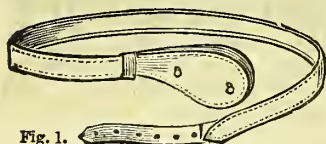


Fig. 1.



Fig. 2.

The Best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

# LINDSEY & SONS.

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

WHOLESALE AND EXPORT. THE LARGEST SHIPPERS IN THE TRADE.

ILLUSTRATED PRICE LIST POST FREE TO ANY ADDRESS.

32 LUDGATE HILL, and 40 GRACECHURCH STREET. E.C.

# SURGICAL DRESSINGS

ABSORBENT  
COTTON LINTS,  
FLAX LINTS,  
ROLL BANDAGES,  
COTTON WOOLS.



TRADE MARK (REGISTERED).

"GAMGEE TISSUE"  
(Patent Absorbent Gauze and Cotton Wool)

AND

All kinds of  
ANTISEPTIC  
DRESSINGS.

MANUFACTURED BY

ROBINSON & SONS,

COTTON SPINNERS, WEAVERS,  
And BLEACHERS,

Wheat Bridge Mills, CHESTERFIELD.

And 55 Fann Street, Aldersgate Street. LONDON, E.C.



## VINCENT WOOD,

*Bond-fide Makers of High-class*

Trusses, Abdominal Belts,  
Chest-expanding Braces,  
Riding Belts, Suspensory  
Bandages, Galvano-Electric  
Belts, Corsets, & Appliances,  
Magnetic ditto, Chest Protec-  
tors, & Surgical Appliances.

THE CHEAPEST, BEST, & LARGEST  
HOUSE IN THE TRADE.

*Circu ars, Statuettes, &c., supplied Free.*

3 St. Andrew's St., Holborn Circus  
(Adjoins Church),

LONDON, E.C.

New Brace and Belt com-  
bined, for Youths & Gents. Estab. 1840. Telegrams—"Acme London."

## GLASS BOTTLES

GOOD AND CHEAP.

From Stock  
in London or  
direct from  
the Works.

### FURTHER REDUCTION IN THE PRICES

OF  
THE NEW SHAPE FLATS, WITH ROUNDED EDGES, OR THE  
ORDINARY SHAPE.

3 & 4 oz. } Plain or Graduated { 7s. 6d. per Gross.  
6 & 8 oz. } " " " { 8s. 6d. " "

CRYSTAL BLUE TINTED—HANDSOME COLOUR.

3 & 4 oz. } Plain or Graduated { 9s. 0d. per Gross.  
6 & 8 oz. } " " " { 10s. 0d. " "

WHITE MOULDED PHIALS.

1 oz., 3s. 9d.; 1½ oz., 4s. 6d.; 2 oz., 5s. 3d. per Gross.

PLAIN OR GRADUATED TEA SPOONS.

MINERAL WATER BOTTLES,

Plain or Stoppered, at Lowest Market Prices.

I. ISAACS & CO., Glass Bottle Manufacturers,  
25 Francis St., Tottenham Court Rd., LONDON.

Established 50 Years. Bankers—London and Westminster Bank.

## FELIX BERGER,

7 Mark Lane, London, E.C.

## FOSSIL MEAL,

OR

## INFUSORIAL EARTH

(KIESELGUHR).

RAW, CALCINATED, AND WASHED, the  
PUREST OFFERED, as every parcel is  
analysed by an Analytical Chemist.

*Samples and Quotations on application.*

**METHYLENE**  
Obtained by the action of Metallic Zinc on  
Chloroform and Alcohol.  
Discovered to be a general Anaesthetic by Dr.  
RICHARDSON in 1867.  
Bottles, 16s.; 8-oz., 8s. 6d.; 4-oz., 4s. 6d.; 2-oz., 2s. 6d.  
**COMPOUND ANAESTHETIC ETHER,**  
For producing Local Anesthesia.  
In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.  
**OZONIC ETHER,**  
In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.  
**PEROXIDE OF HYDROGEN,**  
First introduced as a Medicine by Dr. RICHARDSON.  
**ETHYLATE OF SODIUM**  
(Dr. RICHARDSON'S Formula, for removing Nevi, &c. In 1-oz. & 1-oz.  
Bottles, with elongated stoppers for applying the Caustic, 2s. 6d. & 4s.  
and 4s. 6d.; 16-oz., 12s.  
**STYPTIC COLLOID,**  
For promoting the Healing of Wounds by the first intention.  
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d.  
and 4s. 6d.; 16-oz., 12s.  
**CHARCOAL CAPSULES,**  
Containing Pure Vegetable Ivory  
Charcoal.  
In Boxes, 2s. 6d. each.



# GLASS BOTTLES.

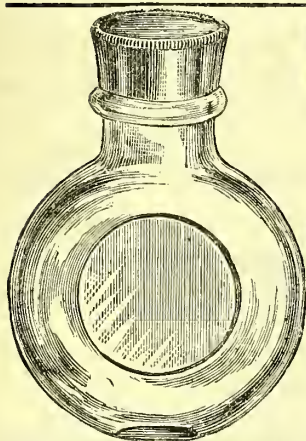
**TO WHOLESALE AND EXPORT BUYERS.**

**DISPENSING BOTTLES** of best quality, in White Flint or all the best and newest tints. **VIALS**.—White Flint or Coloured, in all shapes and sizes. **FEEDING BOTTLES**.—Plain mouths or Screw Stoppers, in White or Green Flint. **LIME CREAMS AND KALIS** of all sizes. **ESSENCE BOTTLES** of every description, Plain or Stoppered. **MALT EXTRACT BOTTLES**, in Actinic Green, Amber, Dark Blue, or White Flint.

**TO FOREIGN AND COLONIAL BUYERS.**

Having recently erected spacious Warehouses, we are enabled to give special attention to packing Goods for Export. Only experienced Packers employed.

**E. A. HEARN & CO.,** WHOLESALE & EXPORT GLASS BOTTLE MANUFACTURERS, LONDON, E., ECLIPSE GLASS WORKS, CHATSWORTH ROAD, CLAPTON, LONDON, E.



## R. H. BARRETT,

Flint Glass Bottle Works,

99 THE OVAL, CAMBRIDGE HEATH, LONDON, E.

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

### WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with **INDESTRUCTIBLE WASHERS**, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, 10/6 per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered

Telegraphic Address—"FOREFRONT LONDON." [1]

Registered Trade Mark.

BEST FLINT DISPENSING  
BOTTLES, WHITE, BLUE, OR  
GREEN TINT, AMBER  
AND ALL OTHER  
COLOURS.



Number 26866.

HAND MADE SHOP-ROUNDS.  
OPAL, FLINT, AND  
TURQUOISE BOXES.  
SPECIAL ATTENTION GIVEN  
TO PROPRIETARY  
BOTTLES.

Owing to the steady and continuous increase in their business, and especially the enormous influx of trade they have experienced from Home and Colonial buyers during the last two or three years, the Proprietors of the above Brand of all shaped Dispensing and other Bottles have just completed an enlargement of their Works, which are now doubled in size, and capable of turning out very large quantities of Bottles at shortest notice.

The "W" Brand productions can be obtained only through Wholesale London Houses.

# BOTTLES

Write for revised Price List of Dispensing Bottles, &c.

SAMPLES ON APPLICATION.

Special Quotations for Large Quantities.

**E. YOULDON,**  
EAST LONDON GLASS BOTTLE WAREHOUSE,  
36, 38, & 40 Great Garden Street.  
WHITECHAPEL, LONDON, E.



# STICKY FLY PAPERS.

## WARNING.

MESSRS. TUNBRIDGE & WRIGHT, READING, desire to warn Chemists and Dealers against persons who may represent and offer to print and sell Sticky Fly Papers with names of purchasers to be spread by Tunbridge & Wright. £5 REWARD will be paid to any person giving information which will lead to the detection and punishment by process of law of such misrepresentations. Messrs. Tunbridge & Wright are the originators of the process and machinery, and are the sole vendors of the "FLY CEMETERY," duly protected by Letters Patent. All Infringers will be at once proceeded against. Buy only the "FLY CEMETERY."

Information as to Infringements may be given to

Messrs. MANN & TAYLOR, Solicitors,

109 New Oxford Street, London.



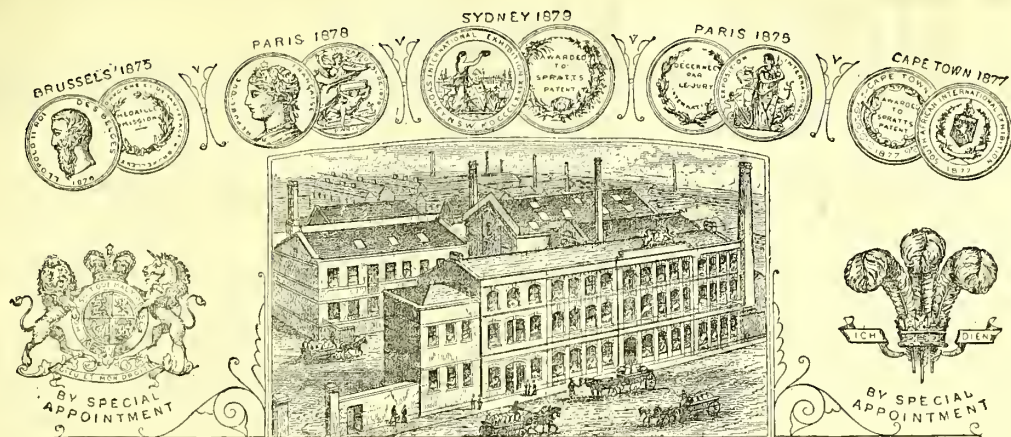
It is acknowledged by the Trade that  
**THE "FLY CEMETERY"**

Is the most saleable Fly Paper ever introduced. It is non-poisonous, and the enormous annual increase in the sale of it is positive proof of its popularity. Many Chemists sold more "Fly Cemeteries" last year than they ever did in their lives of all the other fly papers put together.

*Samples, Testimonials, and Price on application to*  
**TUNBRIDGE & WRIGHT, READING.**





TELEPHONE NUMBER  
4688.TELEGRAMS:  
"SPRATTS LONDON."

MEMO FROM

# SPRATT'S PATENT LIMITED

## MANUFACTURERS

Henry Street, *BERMONDSEY ST.* LONDON, July 2nd, 1892.  
S.E.

### POULTRY AND GAME REARING.

Gentlemen,

Kindly draw your customers' attention to the fact that we now manufacture our Game Meal of three different Grades—  
Fine, Medium, and Coarse.

We have also introduced a

### CHICKEN MEAL,

specially for rearing Chicks from the Shell.

It is on the same successful lines as our Poultry Meal, being, like it, a Cooked Food.

Write for Samples of all our articles, so much in demand just now for Rearing.

Yours faithfully,

## SPRATTS PATENT LIMITED.



## A "STORES" CAUGHT!

Mr. JUSTICE STIRLING.—October 30, 1891.

### KEATING v. KIBBLE & CO.

THE Defendants are Proprietors of large Stores at Deptford, and when asked for "Keating's Powder," sold by their shopmen an article not made by me. The Defendants denied that this was done with their knowledge, and this may be conceded, but it cost them over £40, although in this instance I pressed my Solicitors to be as considerate to them as possible. The Court ordered the Defendants to pay the whole costs of the action, and issued an injunction restraining them from offering for sale any preparation other than that prepared by Thomas Keating under the name of "Keating's Insect Powder."

## IMPORTANT NOTICE.

12 BRIDE LANE, LONDON, E.C., *March 15, 1892.*

WHEREAS I have reason to believe that certain persons have sold to Customers Packets of what they represent to be KEATING'S INSECT POWDER, which Powder has not been manufactured by me, I HEREBY GIVE NOTICE that I shall institute Legal Proceedings against persons found to be improperly selling any but Keating's Insect Powder to customers asking for it, which action renders them liable to very heavy penalties.

THOMAS KEATING.

## A CHEMIST.—HEAVY DAMAGES.

In the High Court of Justice—Chancery Division. Mr. JUSTICE NORTH—October 26, 1886.

### KEATING v. POLL.

#### IT WAS ORDERED—

That the Defendant be perpetually restrained from stating or causing to be stated that Keating's Persian Insect Destroying Powder contains any substance poisonous to animals or human beings, or from making any statement to the effect that such Powder is dangerous to animals or human beings.

#### IT WAS FURTHER ORDERED—

That the Defendant, William Sheppard Poll, do pay to the Plaintiffs their costs of this action.



# REDUCTION IN PRICES.

## THE DURAPLASTIC COATED HORSE BALL.

Elegant Veterinary  
Pharmacy.



Elegant Veterinary  
Pharmacy.

### FLETCHER'S PATENT.

#### No. 4.—Alterative Balls, 2/ per doz.

R Aloes Barb. .. 1½ dram 20/  
Antim. Tart. .. 1 dram  
Saponis .. 2 drams  
Mass. Commun. Q.S.

#### No. 22.—Anodyne Balls, 4/6 per doz.

R Pulv. Ophi. .. 1 dram 45/  
Chloral. Hydrat. .. 1 dram  
Ammon. Carb. .. 2 drams  
Mass. Commun. Q.S.

#### No. 5.—Astringent Balls, 2/ per doz.

R Ext. Catechu .. 1 dram 20/  
Pulv. Cinnamomi .. 1 dram  
Mass. Commun. Q.S.

#### No. 12.—Condition Balls, 2/ per doz.

R Aloes Barb. .. 1½ dram 20/  
Antim. Tart. .. ½ dram  
Potass. Nit. .. ½ dram  
Antim. Sulph. .. 1 dram  
Pulv. Resinae .. ½ dram  
" Pip. Cayenne .. 1 scruple  
" Gentian. .. 1 dram  
Sapo. Mollis .. 1 dram  
Theriaceae, Q.S.

#### No. 23.—Condition Balls, 2/ per doz

Formula as No. 12. Aloes omitted. 20/

#### No. 6.—Cordial Balls, 2/ per doz.

R Pulv. Zingib. .. 3 drams 20/  
" Gentian. .. 3 drams  
Theriaceae, Q.S.

#### No. 7.—Cough Balls, 2/ per doz.

R Aloes Barb. .. 1 dram 20/  
Pulv. Digitalis .. ½ dram  
Potass. Nit. .. 2 drams  
Mass. Commun. Q.S.

#### No. 16.—Cough Balls, 2/ per doz.

R Ext. Belladon. .. ½ dram 20/  
Aloes Barb. .. 1 dram  
Potass. Nit. .. 2 drams  
Mass. Commun. Q.S.

#### No. 17.—Cough Balls, 2/ per doz.

R Ext. Belladon. .. ½ dram 20/  
Camphoræ .. ½ dram  
Pulv. Digitalis .. ½ dram  
Potass. Nit. .. 2 drams  
Mass. Commun. Q.S.

#### No. 21.—Cough Balls (Chlorodyne) 3/3 per doz.

R Chlorodynum .. 2 drams 33/  
Ext. Belladonnae .. ½ dram  
Camphoræ .. ½ dram  
Mass. Commun. Q.S.

#### Maidenhead.

Dear Sirs,—I beg to say that the Duraplastic Ball supplied to me by your firm answer all the advantages claimed for them.

I am, yours faithfully,

J. F. SIMPSON, F.R.C.V.S.

#### Grantham Veterinary Infirmary.

I have much pleasure in certifying that I have used Wyleys & Co.'s Patent Duraplastic Horse Balls for some considerable time. I have found them universally efficacious, pleasant to administer, quick in action, and in every way preferable to the old-fashioned paper-covered bolus of our forefathers.

BEN. H. RUSSELL, F.R.C.V.S.

#### Stratford-on-Avon.

Sirs,—I can testify to the thorough therapeutic action of your patent Duraplastic Balls, and I prefer them to the old-fashioned balls on account of their easiness to deliver to the patient, and also of their remaining of the proper consistency, which I consider most beneficial.

I am, Sirs, yours truly,

JNO. JAS. CROWHURST, M.R.C.V.S.L.

#### Hertford Street, Coventry.

Dear Sirs,—I think the Duraplastic Horse Balls a very good invention. They save no end of trouble, and are always clean, keep well, and act satisfactorily. The Physic Balls I find very reliable. You asked me some time ago about some Physic Balls, and as I have not had occasion to blame any I have used for non-acting, I thought I would just mention the fact.

Yours faithfully,

WM. DALE, M.R.C.V.S.

#### From T. Blakeway & Son,

#### Veterinary Surgeons, Stourbridge.

Dear Sirs,—We should be obliged if you would kindly forward us at your earliest convenience five gross of your Patent Duraplastic Physic Balls. The coating of these balls we consider a very elegant preparation, and from its smoothness, coupled with the shape in which the balls themselves are made up, we find them particularly easy of administration, and the chances of their being coughed back are reduced to a minimum.

Faithfully yours,

JAMES BLAKEWAY.

#### West Bromwich.

Gentlemen,—I have been using your Duraplastic Horse Balls for several months, and am very pleased with them. I find that to a single-handed practitioner they are invaluable.

Yours truly,

HARVEY COLLETT, M.R.C.V.S.

#### No. 8.—Diuretic Balls. 1/9 doz.

R Pulv. Resin. .. 2½ drams 18/  
Potass. Nit. .. 2½ drams  
Sapo. Q.S.

#### 9.—Fever Balls. 2/ doz.

R Antim. Tart. .. ½ dram 20/  
Camphoræ .. ½ dram  
Potass. Nit. .. 2 drams  
Mass. Commun. Q.S.

#### No. 1.—Physic Balls. 2/ doz.

Aloes Barb. .. 4 drams 20/

#### No. 2.—Physic Balls. 2/6 doz.

Aloes Barb. .. 5 drams 25/

#### No. 3.—Physic Balls. 2/9 doz.

Aloes Barb. .. 6 drams 27

#### No. 18.—Physic Balls. 3/ doz.

Aloes Barb. .. 7 drams 30/

#### No. 19.—Physic Balls. 3/6 doz.

Aloes Barb. .. 8 drams 36/

#### No. 15.—Stimulating Balls. 2/ doz.

R Ammon. Carb. .. 2 drams 20/  
Aloes Barb. .. 1 dram  
Pulv. Gentian. .. 2 drams  
" Zingib. .. 1 dram  
Camphoræ .. ½ dram  
Theriaceae, Q.S.

#### No. 24.—Stimulating Balls. 2/ doz.

Formula as No. 15. Aloes omitted 20/

#### No. 10.—Tonic Balls. 2/ doz.

R Ferri Sulph. Pur. .. 1½ dram 20/  
Pulv. Zingib. .. 1½ dram  
Ext. Gentian. .. 2 drams  
Mass. Commun. Q.S.

#### No. 11.—Tonic Balls. 1/9 doz.

R Cupri Sulph. .. 1 dram 18/  
Pulv. Zingib. .. 1 dram  
Mass. Commun. Q.S.

#### No. 20.—Tonic Balls (Quinine).

2/9 doz.

R Quinine Sulph. .. 1 scr. 27/  
Ferri Sulph. Pur. .. 1½ dram  
Pulv. Zingib. .. 1½ dram  
Ext. Gentian. .. 2 drams  
Mass. Commun. Q.S.

#### No. 13.—Worm Balls. 2/6 doz.

R Calomel .. 2 scr. 25/  
Aloes Barb. .. 3 drams  
Mass. Commun. Q.S.

#### No. 14.—Worm Balls. 5/ doz.

R Aloes Barb. .. 2 drams 50/  
Ferri Sulph. .. 2 drams  
Antim. Tart. .. 2 drams  
Ol. Filicis Maris .. 1 dram  
Syrup. Q.S.

*These Balls are specially adapted for export; and their sale is steadily increasing abroad, in India, Australia, Egypt, &c.*

**PRIVATE FORMULÆ.**—WYLEYS (LIMITED) will be glad to prepare Patent Duraplastic Balls from private recipes or modifications of the Veterinary Pharmacopœia formulæ, also to model and coat any masses which may be entrusted to them. Arrangements can also be made to have the name of the Chemist upon each Ball if desired, upon orders of two gross of assorted Balls.

All Balls are packed in boxes of one dozen. Samples forwarded free on application.

PROPRIETORS AND SOLE MANUFACTURERS,

## WYLEYS LIMITED, COVENTRY.

Branch House—52 Moor Street, BIRMINGHAM.





LONDON, 1884.

CONTRACTORS TO  H.M. GOVERNMENT.

ESTABLISHED 1873.

BEFORE ORDERING ELSEWHERE

WRITE FOR OUR NEW SEASON'S PRICE LIST OF



# DISINFECTANTS

POWDERS, ACIDS, FLUIDS, SOAPS, &amp;c.

## ADAMS, WEBSTER & CO.

Wholesale and Export Disinfectant Manufacturers, HACKNEY, LONDON, N.E.

# CARBOLINE

The strongest non-poisonous disinfectant known. All chemists should sell the Carboline disinfectants, as they are in good demand, and leave a large profit to the Retailer.

*Correspondence invited. Chemists would do well to write us before stocking any Disinfectants.*

### HENRY ELLISON, F.C.S., THE DISINFECTANTS CHEMICAL WORKS, CLECKHEATON, YORKS.

BEWARE OF COPYISTS.

Established 1840.

AWARDED OVER 40 PRIZE MEDALS.

### THREE GREAT

## Day & Sons, Grewe.

### ANIMAL MEDICINES

### THE "PURIFIED" DRIFFIELD OILS,

Commonly called "Day's Oils,"  
"Day's Black Oils."

For Wounds of all kinds in all animals.  
For Saddle & Stake Wounds & Cracked Heels.  
For Sore Teats and Swollen Udders in Cows.  
For Anointing in bad Lambing and Calving.

Price 2s. 6d. and 6s. per Bottle.



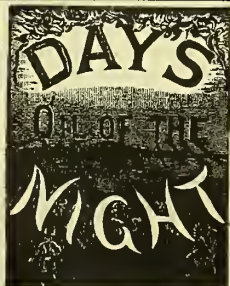
BEWARE OF COPYISTS.

### THE RED DRINK OR COW DRENCH.

Cures Fever and Costiveness in Cattle.  
Cleanses and Cools the Blood and System.  
For Red Water, Indigestion, and Yellowows.  
Cures Bad Cleansing & prevents Milk Fever.

Price 12s. per dozen Packets.

The "EWE DRENCH" acts as  
above for Sheep. 3s. 6d. per doz.



### What's Good for Rheumatism?

### DAY'S OIL OF THE NIGHT.

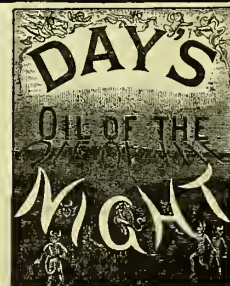
The People's Embrocation for Sprains, Muscular Weakness, Rheumatism, Lumbago, Cramp, sore Throat from Cold, Sciatica, &c., and all Aches, Pains, and Soreness.

Send for "Day's Oil of the Night" terms, framed to prevent CUTTING.

CHEMISTS CAN HAVE A SINGLE BOTTLE DIRECT.

Price 1s. 11d. and 2s. 9d. per Bottle.

### DAY & SONS, CREWE, CHESHIRE.





## GOVERNMENT DISINFECTANT

**CARBOLIC POWDER (PINK)** in 1 Cwt. 2 Cwt. CASKS 11b & ½ Packages  
**CARBOLIC POWDER (PINK)** in TINS 6 & 1/4  
**CARBOLIC FLUID** in 6 & 1/4 & 1/6 STOPPERED BOTTLES  
**CARBOLIC SOAP** No 1 & No 2  
**CARBOLIC & GLYCERINE SOAP** in 1/4 lb. TABS

**THE GOVERNMENT SANITARY CO., LONDON E.**

FREE FROM POISON AGREEABLE IN SMELL. TO BE HAD FROM ALL WHOLESALE DRUGGISTS.

## CHLORIDE OF LIME

IN AIRTIGHT WATERPROOF & ODOURLESS PACKAGES  
 INVENTORS AND MANUFACTURERS **NATIONAL CHEMICAL CO., LONDON**

THE N. C. CO. PACKAGES HAVE STOOD THE TEST FOR MANY YEARS, AND CAN ALWAYS BE RELIED UPON TO GIVE SATISFACTION.

KEPT IN STOCK BY ALL WHOLESALE DRUGGISTS & C. SEE THEIR PRICE LISTS.

## WILSON'S

PATENT

## STICKY FLY PAPERS

ARE BEYOND ALL PRAISE.

From all Wholesale Houses, or direct from the Maker,

**S. WILSON, FLY PAPER MANUFACTURER,  
 ST. HELEN'S, LANCASHIRE.**

PRICE 4/ PER GROSS, CARRIAGE PAID.

Shippers and Exporters, please apply for Special Terms.



## The PERFECT WEED KILLER

IS THE BEST KNOWN.  
 HAS THE LARGEST SALE.

USED AT KEW GARDENS,  
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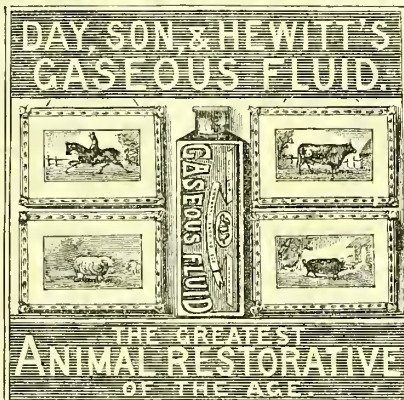
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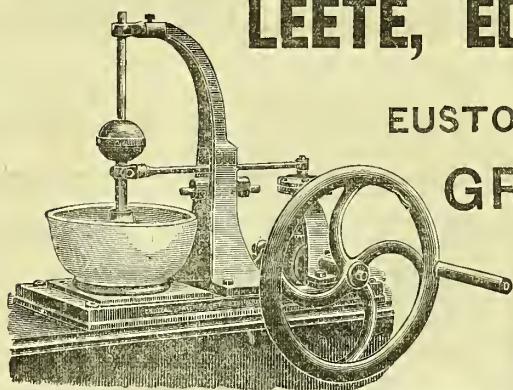
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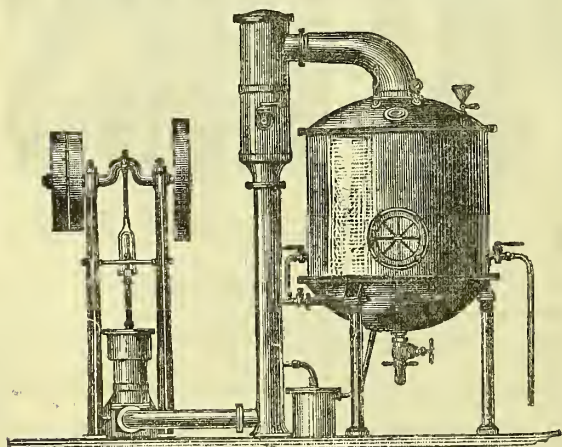
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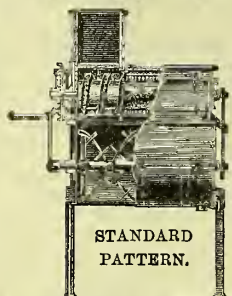
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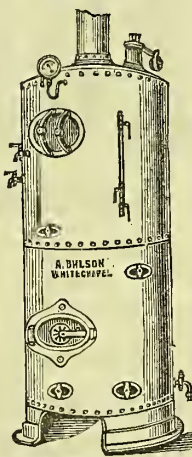
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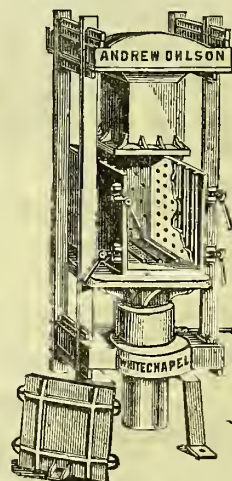
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